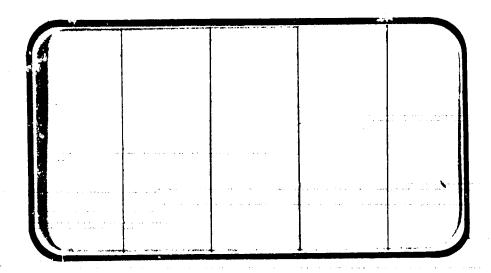


NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

(NASA-CP-147602) THRMINAL AREA ENERGY
MANAGEMENT REGIME INVESTIGATIONS UTILIZING
AN 0.030-SCALE MODEL (47-0) OF THE SPACE
SHUTTLE VFHICLE ORBITER CONFIGURATION
140A/B/C/R IN THE AMES RESEARCH CENTER 11 X G3/16

N76-30272 HC\$18,25

Unclas 49194



SPACE SHUTTLE

AEROTHERMODYNAMIC DATA REPORT



JOHNSON SPACE CENTER

HOUSTON, TEXAS

DATA MANagement services

SPACE DIVISION CHRYSLER
CORPORATION

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TERMINAL AREA ENERGY MANAGEMENT
REGIME INVESTIGATIONS UTILIZING AN 0.030-SCALE
MODEL (47-0) OF THE SPACE SHUTTLE VEHICLE
ORBITER CONFIGURATION 140A/B/C/R IN THE
AMES RESEARCH CENTER 11 X 11 FOOT
TRANSONIC WIND TUNNEL (0A148)

by

P. J. Hawthorne Rockwell International Space Division

Propared under NASA Contract Number NAS9-13247

by

Data Management Services Chrysler Corporation Space Division New Orleans, La. 70189

for

Engineering Analysis Division

Johnson Space Center National Aeronautics and Space Administration Houston, Texas

WIND TUNNEL TEST SPECIFICS:

Test Number:

ARC 11-073

NASA Series Number: Model Number:

0A148 47-0

Test Dates:

May 5 through May 17, 1975

Occupancy Hours:

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Chrysler Corporation Space Division assumes no responsibility for the data presented other than display characteristics.

TERMINAL AREA ENERGY MANAGEMENT

REGIME INVESTIGATIONS UTILIZING AN 0.030-SCALE

MODEL (47-0) OF THE SPACE SHUTTLE VEHICLE

ORBITER CONFIGURATION 140A/B/C/R IN THE

AMES RESEARCH CENTER 11 x 11 FOOT

TRANSONIC WIND TUNNEL (0A148)

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P. J. Hawthorne, Rockwell International Space Division

ABSTRACT

This report documents data obtained in wind tunnel test OA148.

The objectives of the test series were to:

- 1) obtain pressure distributions, forces and moments over the vehicle 5 Orbiter in the terminal area energy management (TAEM) and approach phases of flight.
- 2) obtain elevon and rudder hinge moments in the TAEN and approach phases of flight.
- 3) obtain body flap and elevon loads for verification of loads balancing with integrated pressure distributions.
- 4) obtain pressure distributions near the short OMS pods in the high subsonic, transonic and low supersonic Mach number regimes.

Testing was conducted over a Mach number range from 0.6 to 1.4 with Reynolds number variations from 4.57 x 10^6 to 2.74 x 10^6 per foot. Model angle-of-attack was varied from -4 to 16 degrees and angles of side slip ranged from -8 to 8 degrees.

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PLOTTED COEFFICIENTS SCHEDULE:

- CY, CYN and CBL versus BETA
- CN, CA and CLM versus ALPHA
- CHEO, CHEI, CHETOT and CHBF versus ALPHA
- versus X/LB
 - versus X/CW <u>გ</u>
- CP versus X/CV

: \$\frac{1}{2}

NOMENCLATURE

Sumb o 1	Plot	Definition
Symbol	Symbol .	<u>DETTITICION</u>
Ab	AB	total Orbiter base area, ft ²
Ai	Ai	area over which P ₁ acts, ft ²
A _{sb}	ASB	speed brake base area, ft ²
b	BREF, BW	Orbiter wing span, in
b _V	BV	vertical tail reference span, in
$^{\rm C}_{\rm A_u}$	CAU	Orbiter uncorrected axial force coefficient
c _A	CA	Orbiter axial force coefficient with sting cavity adjusted to average base pressure
c_{AF}	CAF	Orbiter forebody axial force coefficient.
c _{Asc}	CASC	Orbiter sting cavity axial force coefficient.
c_{D_U}	CDU	Orbiter uncorrected drag coefficient
Chbf	CHBF	body flap hinge moment coefficient, about hinge line $X_0 = 1532.0$
^C hei	CHEI	inner elevon hinge moment coefficient, about hinge line $X_0 = 1387.0$
c _{heo}	CHEO	outer elevon hinge moment coefficient, about hinge line $X_0 = 1387.0$
с _{Не} тст	CHETOT	total right elevon hinge moment coefficient
c_{L_U}	CLU	Orbiter uncorrected lift coefficient
C _{&}	CBL	Orbiter rolling moment coefficient, body axis system

NOMENCLATURE (Continued)

Symbol	Plot Symbol	Definition
c _m	CLM	Orbiter pitching moment coefficient with sting cavity adjusted to average base pressure, referenced to Orbiter MRC.
c_{m_u}	CLMU	Orbiter uncorrected pitching moment coefficient
$c_{m_{F}}$	CLMF	Orbiter forebody pitching moment coefent referenced to orbiter MRC.
C _{msc}	CLMSC	Orbiter sting cavity pitching moment coefficient, referenced to Orbiter MRC
c_{N_u}	CNU	Orbiter uncorrected normal force coefficient
CN	CN	Orbiter normal force coefficient with sting cavity adjusted to average base pressure
c_{N_F}	CNF	Orbiter forebody normal force coefficient
$c_{N_{SC}}$	CNSC	Orbiter sting cavity normal force coefficient
c _n	CYN	Orbiter yawing moment coefficient, body axis system
C _{pi}	CPi	surface tap pressure coefficient, port i, $(P_1 - P_{\omega})/q$
Сү	CY	Orbiter side force coefficient
c[x][Y]	c[x][Y]	base area force and moment coefficients. The first subscript (post fix) designates the type of coefficient, the second the pressure tap and it's associated area. The symbolic
[X]=	:	vectors [X] and [Y] are defined below.
A N Y m n	A N Y LM YN BL	axial force normal force side force pitching moment yawing moment rolling moment

NOMENCLATURE (Continued)

Symbol 1	Plot Symbol	Definition
<u>[</u> Y]=	
1,2,3 4,5,6 sc bf	1,2,3 4,5,6 SC BF	areas associated with pressure taps through 6 see figure 2b sting cavity area upper body flap area
1 _b .	LB	Orbiter reference body length, IML mose to $X_0 = 1528.3$, in.
^L REF	LREF	longitudinal reference length, Orbiter mean aerodynamic chord, in
	LU/DU	uncorrected lift to drag ratio, CLU/CDU
M	MACH	freestream Mach number
Φ	PHI	angular cylindrical coordinate position around Orbiter body - deg.
Pi	Pi	pressure at surface tap i, PSF
P _∞	P	freestream static pressure, PSF
Pt	PT	freestream total pressure, PSF
q	Q	freestream dynamic pressure, PSF
	RN/L	unit Reynolds number, million per foot
S	SREF	wing reference area, ft ²
Tt	TTR	freestream total temperature, 'R
X _{cp}	XCP/L	center of pressure location referred to $l_{\mbox{\scriptsize b}}$
X _o /L _o	X/LB	longitudinal location of body surface, fraction of body length

NOMENCLATURE (Concluded)

Symbol	Plot Symbol	Definition
X/C	X/CW	chordwise location on wing surface, fraction of local chord
X/C^	X/CV	chordwise location on vertical tail, fraction of local chord
$\eta_{\mathbf{V}}$	Z/BV	spanwise location on vertical tail, fraction of vertical tail span
η	2Y/BW	spanwise location on wing, fraction of semi span
Xmrp	XMRP	longitudinal location of moment reference point
XT	хт	longitudinal moment transfer distance from Orbiter balance center to Orbiter MRC, in
Ymrp	YMRP	lateral location of moment reference point
z _T	ZT	vertical moment transfer distance from Orbiter balance center to Orbiter MRC, in
α	ALPHA	angle of attack, degrees
β	BETA	angle of sideslip, degrees
8 _{bf}	BDFLAP	body flap deflection, degrees
δ _{eL}	ELVN-L, L-ELVN	left elevon deflection, degrees
δ _{eR}	ELVN-R, R-ELVN	right elevon deflection, degrees
år	RUDDER	rudder deflection, degrees
δ _{sb}	SPDBRK	speed brake deflection, degrees
Z _{mrp}	ZMRP	vertical location of moment reference point
	\$\$	mask character used to indicate all possible values for this test Ol through 85

During the course of the test it was necessary to replumb the scanivalves. The resultant time loss necessitated deleting the priority 4 runs which incorporated the use of the metric vertical tail.

Data obtained from pressure taps 184, 296 and 347 are suspect due τ slow leaks noticed while leak checking individual model pressure + τ

Body flap hinge moment data for datasets RE8007 + RE8005 have a -15% drift while datasets RE8006 and RE8007 have a -10% drift due to data recording system errors. System checks during the remainder of the test indicate a system error of less than 4% for body flap hinge moment data.

Rolling moment data has an approximate -.003 bias in the coefficient. The reason for this was not determined, but possible sources are fabrication tolerances and/or differential stiffness of the left and right elevon panels.

Distortion of the instrumented elevon shaft appears to have occurred around run 310 due to model assembly difficulties and the maximum loads encountered at these test conditions. A comparison of measured elevon deflection before and after the test with the nominal setting is presented below:

Elevon Panel	Nominal Nominal	Pre-Test	Post-Test
Inboard right	-10 -4 0 4	-9° 36' -3° 34' +0° 10' +4° 26' +10°32'	-8° 55' -2° 55' +1° 02' +4° 28' +10°39'
Outboard right	$\begin{cases} -10 \\ -4 \\ 0 \\ 4 \\ 10 \end{cases}$	-9° 36' -3° 34' +0° 10' +4° 26' +10° 32'	-8° 15' -2° 20' +1° 05' +3° 59' +10°18'

* Inboard only was measured but was the same as outboard panel(see Ref 2)

CONFIGURATION INVESTIGATED

The Rockwell International model 47-0 Space Shuttle Orbiter Vehicle was utilized in this test series. The model was originially constructed to -140A/B lines, but was modified prior to this test with the addition of the -140C OMS pods, six inch bevelled interpanel elevon gaps and uncovered RCS forward thrustor parts. To denote these additions, the additional designations "C" (for -140C OMS pods) and "R" (for RCS thrustors) were added, and the slashes deleted for convenience on Table II(designated "-140 ABCR").

In data sets RE8069 to 085 the RCS thrustor ports in the nose were filled reverting the configuration to -140A/B/C modified with body $\rm B_{26}$.

The following nomenclature denotes the model components:

Component	Description
^B 26	140A/B fuselage (VL70-000140A, VL70000140B)
⁸ 70	140A/B fuselage (VL70-000140A, VL70-000145, VL70-000140B, VL70-000143A, VL70-000139) with RCS thrustor parts (VL70-08501, VL70-08502, VL70-08296)
(9) · · · ·	140A/B basic canopy (VL70-000140A, VL70-000143A)
E ₄₄	140A/B elevons (VL70-000200, VL70-006089, VL70-006092) with six inch bevelled interpanel gaps, no flipper door
F ₉	140A/B body flap (VL70-000140B, VL70-000200)
^M 16	OMS-RCS pods for 140C Orbiter
N ₂₈	OMS basic nozzles
R ₅	basic Orbiter rudder (VL70-000146A, VL70-000095)
v ₈	basic Orbiter vertical tail (VL70-000140A, VL70-000146A)
W ₁₁₆	basic 140A/B wing (VL70-0C0140B, VL70-000200)

CONFIGURATIONS INVESTIGATED (Concluded)

Designated configurations are:

-140ABCR = B_{70} C_9 E_{44} F_9 M_{16} N_{28} R_5 V_8 W_{116}

-140 ABC = B_{26} C_{9} E_{44} F_{9} M_{16} N_{28} R_{5} V_{8} W_{116}

C

TEST FACILITY DESCRIPTION

The Ames Research Center Unitary Plan 11- by 11-Foot Transonic Wind Tunnel is a closed-circuit, air-medium, variable-density facility capable of attaining Mach numbers from 0.6 to 1.4 at keynolds numbers from 1.7 x $10^6/\mathrm{ft}$ to 9.4 x $10^6/\mathrm{ft}$. The test section is 22 feet long, and models are installed on internal strain-gauge balances mounted to sting-type support systems.

Shadowgraph and Schlieren photographic equipment is available, and pressure transducer instrumentation is provided.

Tunnel operating temperature is 580°R. Extended high Reynolds number runs are restricted by power availability.

DATA REDUCTION

Standard NASA/Ames data reduction equations were used to reduce forces, moments, and pressures to coefficient form. Orbiter main balance force and moment coefficients were computed using the following equations:

	Symbol .	Orbiter main balance measurement
	NF AF PM YM SF RM	Normal Force Axial Force Pitching Moment Yawing Moment Side Force Rolling Moment
c _{Au} =	AF / (q S)	$C_{L_u} = C_{N_u} \cos \alpha - C_{A_u} \sin \alpha$
c _{Nu} =	NF / (q S)	$C_{D_u} = C_{N_u} \sin \alpha + C_{A_u} \cos \alpha$
C _Y =	SF / (q S)	
c _{mu} =	$\frac{PM}{qSc} + \frac{C_A \cdot Z_T}{c} -$	$\frac{c_N \cdot x_T}{c}$
C & =	$\frac{R M}{qS_b} + \frac{C_{\gamma} \cdot Z_T}{b}$	Moment Transfer Distances $X_T = 0.572 \text{ in.}$
c _n =	$\frac{YM}{qSp} - \frac{CY \cdot XT}{p}$	Y _T = 0 Z _T = 0.450 in.

The Moment Reference Center about which the data was reduced is located at

Balance coefficients were grouped into datasets RE80\$\$.

Hinge moments and hinge moment coefficients were computed using the following equations:

Elevon hinge moments (inboard and outboard).

 $HM_{e_T} = (HM1-HM2) (M1/D1) + HM1$

 $HM_{PO} = (HM3-HM4) (M3/D3) + HM3$

where

HMi = measured moment on strain gage i

D1 = distance between gages 1 and 2, .49335 in.

D3 = distance between gages 3 and 4, .45800 in.

M1 = moment transfer distance for inboard elevon, .93825 in.

M3 = moment transfer distance for outboard elevon, .92250 in.

Elevon hinge moment coefficients

Inboard, $C_{H_{e_I}} = H_{M_{e_I}} / (q S_e c_e)$

Outboard, $C_{H_{eo}} = H_{M_{e_o}} / (q S_e c_e)$

Total, $C_{H_{e_{TOT}}} = C_{H_{e_I}} + C_{H_{e_o}}$

 S_e = elevon reference area, 0.189 ft.²

 c_e = elevon reference MAC, 2.721 in.

Body flap hinge moment coefficient

 $C_{H_{bf}} = HM_{bf} / (q S_{bf} c_{bf})$

 HM_{bf} = measured body flap hinge moment

 S_{bf} = body flap reference area, 0.12834 ft.²

cbf = body flap reference MAC, 2.541 in.

Hinge moment coefficients are part of datasets RE8X\$\$.

Pressure coefficients for all model orifice pressure measurements were computed using this equation:

$$C_{P_i} = (P_i - P_{\infty})/q$$

where P_i = pressure at model orifice i

 P_{∞} = tunnel static pressure

q = tunnel dynamic pressure

Other data reduction constants include:

 $S = wing reference area, 2.4210 ft.^2$

c = wing reference chord, 14.2443 in.

b = wing reference span, 28.1004 in.

After the data had been reduced to coefficient form by NASA/AMES, DMS interpolated it to nominal α 's and β 's. Then 2 types of base and sting cavity area coefficients were calculated. When they are applied 3 types of balance coefficient data exists. These can be distinguished by the last subscript (symbolic name) or postfix (mnemonic name). The key is given below

U ~ uncorrected coefficients.

()

- coefficients with sting cavity pressure corrected to base pressure (without a suffix).
- F ~ forebody coefficients with the base area pressure corrected to freestream pressure.

Only the correction coefficients associated with base pressure tapes 1 through 4 were applied to the longitudinal orbiter coefficients.

Figure 2b illustrates the base area associated with each pressure tap. Alphabetic characters bf and sc designate body flap and sting cavity areas, respectively. Base area coefficient names have a numeric character which designates the pressure tap number. Base coefficients for vertical tail areas 5 and 6 were calculated but not applied to the total orbiter coefficients. Base area coefficient values are tabulated in the appendix. A detailed derivation of these coefficients follows. It is concluded by a matrix of base area geometric properties.

The orbiter sting cavity force and moment coefficients were computed as:

$$C_{A_{SC}} = \frac{(C_{p2} - C_{p1})}{S}^{A_1}$$

$$C_{N_{SC}} = \frac{(C_{p2} - C_{p1})}{S}^{A_1} \tan 12.55^{\circ}$$

$$C_{m_{SC}} = C_{A_{SC}} \frac{Z_t}{C} - C_{N_{SC}} \frac{X_{SC}}{C}$$

The orbiter force and moment coefficients corrected for the difference between balance cavity pressure and orbiter base pressure:

$$C_A = C_{A_u} - C_{A_{SC}}$$
 $C_N = C_{N_u} - C_{N_{SC}}$
 $C_m = C_{m_u} - C_{m_{SC}}$

These orbiter coefficients are part of datasets KE80\$\$.

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DATA REDUCTION (Continued)

Orbiter base force and moment coefficients were calculated as follows:

Upper base area

$$C_{N2u} = -(C_{p2} A_{2u} \tan 16^{\circ})/S$$

$$C_{A2u} = -(C_{p2} A_{2u})/S$$

$$C_{m2u} = \frac{C_{A2u} Z_{2u}}{c} - \frac{C_{N2u} X_{2u}}{c}$$

Lower base area

$$C_{N2_{\ell}} = -(C_{p2} A_{2_{\ell}} \tan 10^{\circ})/S$$

$$C_{A2_{\varrho}} = -(C_{p2} A_{2_{\varrho}})/S$$

$$C_{m2_{\ell}} = C_{A2_{\ell}} \frac{Z_{2\ell}}{C} - C_{N2_{\ell}} \frac{X_{2\ell}}{C}$$

Total base area, A₂

$$C_{N2} = C_{N2} + C_{N2}$$

$$c_{A2} = c_{A2_u} + c_{A2_\ell}$$

$$C_{m2} = C_{m2_1} + C_{m2_2}$$

OMS pod base area, A3

(This assumes the surface is perpendicular to the orbiter X-axis)

$$C_{A3} = -(C_{p3} A_3)/S$$

$$c_{m3} = c_{A3} \frac{z_3}{c}$$

OMS pod base area, A₄

(This assumes the surface is perpendicular to the orbiter X-axis)

$$C_{A4} = -(C_{p4} A_4)/S$$

$$C_{m4} = C_{A4} \frac{Z_4}{C}$$

Coefficients for the above areas are grouped into datasets EE8D\$\$.

Upper surface of body flap

$$C_{Abf} = \frac{-C_{pbf} Abf}{S} \sin (\delta_{bf} + 6.88^{\circ})$$

$$C_{Nbf} = \frac{-C_{pbf} Abf}{S} \cos (\delta_{bf} + 6.88^{\circ})$$

$$C_{mbf} = \frac{C_{Abf} Z_{bf}}{c} - \frac{C_{Nbf} X_{bf}}{c}$$

where:

$$C_{pbf} = \frac{C_{p200} + C_{p201} + C_{p204} + C_{p205}}{4}$$

The orbiter force and moment coefficients adjusted to free stream pressure (forebody coefficients).

$$C_{A_{F}} = C_{A_{U}} - \left(\frac{-C_{p1} A_{1}}{S} + \sum_{i=2}^{4} C_{A_{i}} + C_{A_{b}f}\right)$$

$$C_{N_{F}} = C_{N_{U}} - \left(C_{N_{2}} + C_{N_{b}f}\right)$$

$$C_{m_{F}} = C_{m_{U}} - \left(\sum_{i=2}^{4} C_{m_{i}} + C_{m_{b}f}\right)$$

These orbiter coefficients are part of datasets KE80\$\$.

Vertical tail "undercarriage" area, A5

Top Segment:

$$C_{N5t} = (C_{p5} A_{5t} \tan 63.75^{\circ})/S$$

$$C_{A5t} = -(C_{p5} A_{5t})/S$$

$$C_{m5t} = C_{A5t} \frac{Z_{5t}}{C} - C_{N5t} \frac{X_{5t}}{C}$$

Middle Segment:

$$C_{N5m} = (C_{p5} A_{5m} \tan 26.1426^{\circ})/S$$

$$C_{A5m} = - (C_{p5} A_{5m})/S$$

$$c_{m5m} = c_{A5m} \frac{z_{5m}}{c} - c_{N5m} \frac{x_{5m}}{c}$$

Bottom Segment:

$$C_{N5b} = (C_{p5} A_{5b} tan 21.94^{\circ})/S$$

$$C_{A5b} = - (C_{p5} A_{5b})/S$$

$$c_{m5b} = c_{A5b} \frac{z_{5b}}{c} - c_{N5b} \frac{x_{5b}}{c}$$

Total area, A₅:

$$C_{N5} = C_{N5t} + C_{N5m} + C_{N5b}$$

$$C_{A5} = C_{A5t} + C_{A5m} + C_{A5b}$$

$$C_{M5} = C_{m5t} + C_{m5m} + C_{m5b}$$

Vertical Tail base area, A6:

Segment above rudder

$$C_{N6u} = (C_{p6} A_{6u} tan 63.75^{\circ})/S$$

$$C_{A6u} = (C_{p6} A_{6u})/S$$

$$C_{m6u} = C_{A6u} \frac{Z_{6u}}{C} - C_{N6u} \frac{X_{6u}}{C}$$

()

Rudder/Speed brake base:

$$C_{A6_{\ell}} = C_{P6} A_{6_{\ell}} [sin (\theta-55.1667^{\circ}) cos 55.1667^{\circ} + cos (\theta -55.1667^{\circ}) sin 55.1667^{\circ} cos (\delta r)]/S$$

$$C_{N6_{\ell}} = C_{P6} A_{6_{\ell}} [sin (\theta - 55.1667^{\circ}) sin 55.1667^{\circ} - cos (\theta-55.1667^{\circ}) cos 55.1667^{\circ} cos (\delta r)]/S$$

$$C_{Y6_{\ell}} = C_{P6} A_{6_{\ell}} cos (\theta -55.1667^{\circ}) sin \delta r/S$$

$$C_{M6_{\ell}} = [C_{A6_{\ell}} (Z_{6_{\ell}}) - C_{N6} (X_{6_{\ell}})]/C$$

$$C_{\ell} = [C_{Y6_{\ell}} (Z_{6_{\ell}})]/b$$

$$C_{n6_{\ell}} = [C_{Y6_{\ell}} (X_{6_{\ell}})]/b$$

$$C_{n6_{\ell}} = -[C_{Y6} (X_{6_{\ell}})]/b$$

$$A_{6_{\ell}} = A_{6_{\ell}}/sin \theta$$

Total area, A₆:

$$C_{A6} = C_{A6u} + C_{A6k}$$

$$C_{N6} = C_{N6u} + C_{N6k}$$

$$C_{Y6} = C_{Y6k}$$

$$C_{M6} = C_{M6k} + C_{M6k}$$

$$C_{m_6} = C_{m_6u} + C_{m_6l}$$
 $C_{l_6} = C_{l_6l}$

 $C_{n6} = C_{n6}$

Vertical tail area coefficient data are grouped into datasets GE8D\$\$.

BASE GEOMETRIC PROPERTIES MATRIX

			Distance between Centroid and MRC	entroid and MRC
Description	Sub- script	Area A - ft.2	vertical Z - in.	longitudinal X - in.
Sting cavity	SC	0.076699	0.45	12.199
Body flap upper surface	þf	0.128	- 2.64	13.659
Orbiter balance cavity	_	0.076699	0.45	12.199
Orbiter base orifice 2 lower	22	0.133889	- 1.32	12.617
Orbiter base orifice 2 upper	2n	0.0818055	2.07	12.384
Lower OMS pod	ო	0.030472	2.68	K.A.
Upper OMS pod	4	0.074166	3.63	\$
Vertical tail "undercarriage" bottom	2 p	0.003565	4.612	12.395
Vertical tail "undercarriage" middle	E 5	0.302610	5.336	14.079
Vertical tail "undercarriage" top	5 t	0.000341	5.97	15.185
Vertical tail above rudder	n9	0.000798	12.656	18.482
Base area of speed brake	79	Varies with spe	Varies with speed brake deflection	

NOTES: Sting cavity and Orbiter balance cavity are synonymous.

NA - not applicable.

$\bar{\mathfrak{g}}^{2p}$		A6 _R ft. ²
0 25 35 55 85		0.0066036 0.0456000 0.0621000 0.0950800 0.1551400
x ₆₁ =	15.045 +	1.442277 [1-cos (&sb/2)]
Z ₆ =	9.755 +	0.501827 [1-cos (&sb/2)]

Standard DMS loads cycle test procedures were used to process the OA148 pressure data. First numerous pressure distribution plots were released. Analysis of these produced bad pressure data list. This list is reproduced below:

OA148 Bad Pressure Data

	Dataset	Tap		
Component.	No.	No.	<u>B</u>	<u>a</u>
ruselage (B)	1 1 1 1 1 1 1	143 148 150 152 186 187 189 191	4 4 4 4 4 4	-4 -4 -4 -4 -4 -4
Lower Wing (L)	1 + 7 1 + 85 1 1 1 1 1 1 1 1	231 290 316 317 337 333 358 378 379 398	ALL 4 4 4 4 4 4	ALL ALL -4 -4 -4 -4 -4 -4
Upper Wing (U)	1 + 7 1	247 357	ALL 4	ALL -4
Body Flap (F)	24	205	-4 "	12
Speed Brake (K)	1 → 85	822	ALL	ALL
Vertical Tail (V)	8 ALL 79 79	443 1444 1453 1454	ALL ALL -4 -4	ALL ALL -4 -4

Note: Wind tunnel pressure data tabulated in the appendix have the original bad data values.

These points were eliminated from further processing. The remaining data were interpolated to nominal alpha and beta values. Processing was completed with the release of a magnetic tape containing the final interpolated pressure coefficients.

This report contains plots and tabular listings for both force and pressure data. Plotted force data illustrates lateral-directional, longitudinal and hinge moment characteristics of the configuration tested. Plotted pressure data illustrates the effect of several control deflections and attitude changes on local pressure distributions. The multiple volume appendix contains a tabulated listing of the basic force and pressure data. Listing of the interpolated base area coefficients is also included. The plotted and tabulated data are arranged in the following manner:

VOLUME NO.	CONTENTS
1	Force data plots showing lateral-directional
	longitudinal and hinge moment characteristics.
2	Plots illustrating the effect of control surface
	deflections on fuselage, wing and vertical tail
	pressure distributions.

DATA REDUCTION (Concluded)

VOLUME NO.		CONTENTS
3	Tabulated	Force Data
	<u>Dataset</u>	Data type
	RE80\$\$	source balance coefficients
	RE8X\$\$	source hinge moment coefficients
	RE8Y\$\$	source base pressure coefficients
	KE80\$\$	interpolated balance coefficients adjusted for cavity pressure and forebody coefficients
	EE8D\$\$ FE8D\$\$	interpolated base and cavity area coefficients
	GE8D\$\$	interpolated vertical tail base area coefficients

Tabulated Pressure Data

	Component	Fourth Character*	Page
4, 5	orbiter fuselage	В	1
6,7,8	lower wing	L	1271
9,10,11	upper wing	U	3147
12 12	upper body flap lower body flap	. F G	5405 5774
13 13	speed brake vertical tail	K V	6143 6547

^{*} The fourth character in each dataset identifier (i.e., XE8BXX, B for Fuselage) represents the individual component.

(1)

REFERENCES

- 1. SD75-SH-0106, "Pretest Information for OA148 of the 0.03-Scale 47-0 Pressure Loads Space Shuttle Model in the 11 x il Foot Leg of the NASA/ARC Unitary Plan Wind Tunnel," April 18, 1975.
- 2. MG-75-07-11, Rockwell International Corporation Internal Letter: "Model design Dimensional Varification Task 36: Elevon Deflection Angle Check of the 0.03-Scale SSV Model 47-0 (140A/B Configuration)". SAS/WTO/75-283, July 29, 1975.

TEST : OA148			DATE : May 1975
	TEST CON	IDITIONS	
MACH NUMBER	REYNOLDS NUMBER (per foot)	DYNAMIC PRESSURE (pounds/sq. inch)	STAGNATION TEMPERATURE (degrees Fahrenheit)
0,50	4.57 x 10 ⁶	4.166	120
0.90	3.41×10^6	4.166	120
1.10	3.05 x 10 ⁶	4.166	120
1.25	2.86×10^6	4.166	120
1.40	2.74 × 10 ⁶	4.166	120
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BALANCE UTILIZED:	ARC Task MK XX	Α	
	CAPACITY:	ACCURACY:	COEFFICIENT Tolerance:
NF	3000 1bf/gage		
SF	1500 1bf/gage		
AF	600 lbf		
PM	27.000 in-1bf		
RM	4000 in-1bf		
YM	10,500 in-1bf		
COMMENTS: Maximul applic	m normal and side fo ation	orce dependent upo	on point of

ARC 11-073

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\Box	H	3.	8	A	-	~			8	4		4	<			1			7		61	3	0	A	M
		20	J						J															ł	
		CONFIGURATION	ABC						13 C						ABC						ū	3	11		
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30		_ or	أ		-	_	1	-	1	_	 	_		_	+-	 		1 **	1	_	,	1.1.1	•		
1		IDENTIFIER	DEBON!	20	510	374	B Si		210	6	8	673	0%0		3	282	183	4	280				'	20 6	
TEST		IDEN	DE:																		L]			

TABLE III MODEL DIMENSIONAL DATA

MODEL COMPONENT : BODY - Bod		
GENERAL DESCRIPTION : Configuration	140A/B orbiter	lusalaga
NOTE: B26 is identical to B26 except	underside of fuse	lage has been
refaired to accept W116.		
MODEL SCALE: 0.030 MODEL	DRAWING: SS-ACC	1147. Release 12
DRAWING NUMBER:	20000020500	-
		e de la companya de l
DIMENSIONS:	FULL SCALE	MODEL SCALE
Length (OML: Fwd Sta. X _O =235 Length (IML: Fwd Sta X =238)),In. 1293.3 ,In <u>1290.3</u>	38.799 38.709
Max Width (@ $X_0 = 1528.3$), In.	264.0	7.920
Max Depth (@ $X_0 = 1464$), In.	250.0	7.500
Fineness Ratio	0.264	0.264
Area - Ft ²		
Max. Cross-Sectional	340.88	0.3068
Planform		·
Wetted		
Base	4	

TABLE III (Continued)

MODEL COMPONENT : BODY - B70		
GENERAL DESCRIPTION :Configurati	on 1404/B orbit	er functage with
forward fuselage RCS thruster ports, o		
B ₂₆ .		
MODEL SCALE: 0.030		
DRAWING NUMBER: <u>VL70-000140A</u> , -0001 VL70-000205, -006.08	40B, -000143B, - 9, -008501, -008	-000145, -000200 3502, -008296
DIMENSIONS:	FULL SCALE	MODEL SCALE
Length (OML: Fwd Sta X_0 =235), 1 Length (IML: Fwd Sta X_0 =238),	In. 1293.3 In.1290.3	38.799 38.709
Max Width (@ X ₀ = 1526.3), In.	264.0	7.920
Max Depth (@ $X_0 = 1464$), In.	250.0	_7.500
Fineness Ratio	0.264	0.264
Area - Ft ²		***)
Max. Cross-Sectional	340.88	0.3068
Planform		
Wetted		
Base		

MODEL COMPONENT: CANOPY - C		
GENERAL DESCRIPTION: Configuration 3	A. Canopy used	with fuselege
B ₀₆ .		
MODEL SCALE: 0.030 MODEL DWG:	SS-A00147, Rel	case 12
DRAWING NUMBER : VI.70-000143A		
•		
DIMENSIONS:	FULL SCALE	MODEL SCALE
Length (X _O =434.643 to 578), In.	143.357	4.301
Max Width (@ $X_0 = 513.127$), In.	152.412	4.572
Max Depth (@ $X_0 = 485.0$), In.	25.00	0.750
Fineness Ratio		
Area		
Max. Cross-Sectional		
Planform		
Wetted		-
Base		

MODEL COMPONENT <u>ELEVON</u> - EL		
GENERAL DESCRIPTION 6.0 In. F.S.		
Flipper doors centerbody pieces, and	l tipseals are not	mimula 4 md
(Data are for one of two sides.)	THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN THE PERSON NAMED IN THE PERSON NAMED IN THE PERSON	SIMULATED.
MODEL SCALE: 0.030	The second secon	
DRAWING NUMBER		

DIMENSIONS	FULL SCALE	MODEL SCALE
Area - Ft ²	210.0	0.189
Span (equivalent), In.	349.2	10.476
inb'd equivalent chord, In.	118.0	3.54
Outb'd equivalent chord , In.	55.19	_1.656
Ratio movable surface chord/ total surface chord		
At Inb'd equiv. chord	0.2096	0.2096
At Outh'd equiv. chord	0,4004	0.4004
Sweep Back Angles, degrees		
Leading Edge	0.00	0.00
Trailing Edge	- 10.056	- 10.056
Hingeline (Product of a control	0.0	_0.0
(Product of Area & c Area Moment (Namonbacklagedine) , F	t ³ 1587.25	0.0429
Mean Aerodynamic Chord, In.	90.7	2.721

MODEL COMPONENT : BODY FLAP - F9		
GENERAL DESCRIPTION :Configuration	140A/B	-
MODEL SCALE: 0.030		
DRAWING NUMBER :	200	
DIMENSIONS:	FULL SCALE	MODEL SCALE
Length (Chord), In.	84.7	2.541
Max Width , In.	262.308	7.869
Max Depth, In.	23.00	0.690
Fineness Ratio		
Area - Ft ²		
Max. Cross-Sectional		
Planform	142.60	0.128
Wetted	***	-
Rose	41.90	0.0377

MODEL COMPONENT : OMS POD - M16		
GENERAL DESCRIPTION : Configuration	n 1400 orbiter OMS	pod - short pod
External contour is to referenced dra	wings with 1/2" a	dded to simulate
TPS.		
MODEL SCALE: 0.015		
DRAWING NUMBER: VL70-008401, -008	410	
DIMENSIONS :	FULL SCALE	MODEL SCALE
Length (OMS Fwd Sta X _O =1310.	5),In. 258.50	7.755
Max Width (@ $X_0 = 1511$), In.	136.8	4.104
Max Depth (@ $X_0 = 1511$), In.	74.70	2.241
Fineness Ratio	2.484	2.484
Area - Ft ²		
Max. Cross-Sectional	58.865	0.053
Planform		
Wetted		
Rose		

	OMS TABLE III	(Cont'd)	
MODEL CON	PONENT: KON NOZZLES - N ₂₈		
GENERAL I	DESCRIPTION: Configuration	LOA/B orbiter OMS no:	zzles
MODEL SCA	LE: 0.030		
DRAWING N	TUMBER: VL70-000140A (Location	n), SS-A00106, Releas	se 9 (Contour)
DIMENSION	is:	FULL SCALE	MODEL SCALE
MACH	NO.		
Ğ	th - In. Simbal Point to Exit Plane Throat to Exit Plane	All the second s	
Diame	ter - In		
I	xit Throat Inlet		
E	- ft ² xit		
	hroat		
Gimba Left	l Point (Station) In. Nozzle		
	XO YO ZO	1518.0 - 88.0 - 492.	45.54 = 2.64 i4.76
Right	Nozzles		
	^X O YO ^Z O	1518.0 88.0 492.0	45.54 2.64 14.76
Null Left	Position - Deg. Nozzle		
	Pitch Yaw	15°49'	15°49' _ 12°17'
Right	Nozzle Pitch Yaw	15°49'	15°49' 12°17'

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MODEL COMPONENT RUDDER - R		
GENERAL DESCRIPTION Configuration	1 1400 orbiter rud	der (identical t
configuration 140A/B rudder).		
MODEL SCALE: 0.030		
DRAWING NUMBER VL70-000146B, -000	095	
	and the analysis of the section of the section of	z osadnika siwa mana manaka m
DIMENSIONS	FULL SCALE	MODEL SCALE
Area - Ft ²	100.15	0.090
Span (equivalent), In.	201.00	6.030
inb'd equivalent chord, In.	91.585	2.748
Outb'd equivalent chord, In.	50.833	1.525
Ratio movable surface chord/ total surface chord		
At Inb'd equiv. chord	0.400	0.400
At Outb'd equiv. chord	0.400	0.400
Sweep Back Angles, degrees		
Leading Edge	34.83	34.83
Trailing Edge	26.25	26.25
Hingeline	34.83	34.83
(Product of area & c) Area Moment (Monacheshagestina),	Ft ³ 610.92	0.0165
Mean Aerodynamic Chord, In.	73.2	2.196

MODEL COMPONENT: VERTICAL - V8		
GENERAL DESCRIPTION:Configuration 140C or	biter vertical te	il.
(Identical to configuration 140A/B vertical	tail.)	
MODEL SCALE: 0.030		
DRAWING NUMBER: VL70-000140C -000146B		
dimensions:	FULL SCALE	MODEL SCALE
TOTAL DATA		
Planform Span (Theo) - In. Aspect Ratio Rate of Taper Taper Ratio Sweep-Back Angles, Degrees. Leading Edge Trailing Edge O.25 Element Line Chords: Root (Theo) WP Tip (Theo) WP MAC Fus. Sta. of .25 MAC W.P. of .25 MAC B.L. of .25 MAC	413.253 315.72 1.675 0.507 0.404 45.000 26.25 41.13 268.50 108.47 199.81 1463.35 635.52 0.0	0.372 9.472 1.675 0.507 0.404 45.000 26.25 41.13 8.055 3.254 5.994 43.901 19.066 0.0
Airfoil Section Leading Wedge Angle - Deg. Trailing Wedge Angle - Deg. Leading Edge Radius	10.0 14.92 2.0	10.0 14.92 0.060
Void Area	13.17	0.0019
Blanketed Area	0.0	0.0

MODEL COMPONENT: WING-Way		
GENERAL DESCRIPTION: Configuration 4		
NOTE: Identical to W11, except airfoil thickness	Dihedral angle	is along
trailing edge of wing.		
MODEL SCALE: 0.030		
TEST NO.	DWG. NO. VL7	0-000140A -000200
DIMENSIONS:	FULL-SCALE	MODEL SCALE
TOTAL DATA Area (Theo.) Ft2 Planform Span (Theo In. Aspect Ratio Rate of Taper Taper Ratio Dihedral Angle, degrees Incidence Angle, degrees Aerodynamic Twist, degrees Sweep Back Angles, degrees Leading Edge Trailing Edge O.25 Element Line Chords: Root (Theo) B.P.O.O. Tip, (Theo) B.P. MAC Fus. Sta. of .25 MAC B.L. of .25 MAC B.L. of .25 MAC EXPOSED DATA Area (Theo) Ft2 Span, (Theo) In. BP108 Aspect Ratio Taper Ratio Chords Root BP108 Tip 1.00 b MAC Fus. Sta. of .25 MAC B.L. of .25 MAC Airfoil Section (Rockwell Mod NASA) XXXX-64 Root b Tip b =	2690.00 936.68 2.265 1.177 0.200 3.500 0.500 -10.056 35.209 689.24 137.85 474.81 1136.83 290.58 182.13 1751.50 720.68 2.059 0.245 562.09 137.85 392.83 1185.98 295.30 251.77	2.421 28.10 2.265 1.177 0.200 3.500 0.500 -10.056 35.209 20.677 4.136 14.244 34.105 8.717 5.464 -1.576 21.620 2.059 0.245 -16.863 4.136 11.785 35.579 8.829 7.555
Data for (!) of (2) Sides	0.120	0.120
Leading Edge Cuff Planform Area Ft2 Leading Edge Intersects Fus M. L. 0 Sta Leading Edge Intersects Wing @ Sta	113.18 500.0 1025.0	0.102 15.0 30.720

FUSELAGE PRESSURE TAP LOCATIONS -

ORE	DRBYTER- IN.	. /%						P		*	RADIAL	78,		COC	LOCATION		,	DE	DEGREES	çs		
Full	Mood	×./.	0	20	40	35	2	8	3	0)	K5 110 120 135 40 50	3	3		12/	128/	162 18	2	K1 671 571	80	9N 081	2 7.26 7.78
235	202	0	7																		-	
245	7.35	.008	8					9												9	<u>س</u>	7
265	262	.023	//	12	13	14	15	9/			11			8						6/	6	3
295	8.85	.046		24	25	77	27	28		-	29			30						3/	à	2,
325	9.75	070.		38	37	38	33	80			17			42						43	8	29
330	11.40	.112	14	87	64	20	15	25			23			54						25	- 3	38
940	13.20	.158					``												23	6	<i>``</i>	33
150	13.50	13.50 166	60	19	62	63	8	65			99			13				-	83	3	0,	44
445	1395	1111													13	7	Ħ				2	ŝ
38	15.00	204 75	22	26	77	82	2	80			18		28	83			8	\$		35	<u> </u>	(1)
560 1680		.251	89		8		6	22			83			24			8	B		%	110	8
625	8.75	10%	8		66		100 001	101			102			601			"	101		501	58	73
725	2175	.378/07	101		108		011 601	00			///			112			~	113		#//	8	86
880	26.40	165	116		111		//8//	6/1		_	02/			121			"	77		123	38	44
980	29.40	574	527		126																2	36
<i>1880</i>	3240	.652	871		129		130 131	161			132		-	(33			7	13		135	8	104
38/	2. OF XE	622	137		130		V/10E/	9			171			113			_	_		113	7	<u> </u>

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TABLE IV. - Concluded.

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FUSELAGE PRESSURE TAP LOCATIONS

YT GA	CRBITER- IM.						P		&	AO!	7	RADIAL LOCATION ~ DESILES	7	Š	γ,	9	ESA	33	L					
Ago	FUL More 1/6 0 20 40 55 70 90 105 110 120 135 140 150 151 156 112 115 119 119 30 30 30 30 30 30 30	0	8	2	8	8	8	8	9	18	18	3	8	1/2	13	3	100	1 1/2	8	R	23	*	58	38
57.3	1245 37.35 .779 145	145		34		Š	041 BH 140	8	H	150 151	2/	37	152	_		153	_		B				0	5
39.0	1300 390 821 52	52		Ø		8	58 59 160	33	7	16/162	3	7	163						154				0	6/
412	BB 412 819 KG	3		47		3	01/61/83/	2	2	11/12	72	Ž.	621			172	-						6	28
429	MED 429 921 /R	7		1		8	178 179 180	8	~	181	28	683	3			8	u						0	37
3	1180 HL . 900 BC	8		181		8	188 89 120	B		13/1/22	-23	8	88			\$							٥	*
8	530 ks 999							2,5	260 860	82													4	8

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TABLE V.

W K		Ø			34			19			8			7//	
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							.955	255	368	907		295 296		•	
				.965	228 229	241	-979	254	267	.953	282	295	980	3/0	323
	·			8		320	.839 .879 .919	253	265 266 267	8	281	762	.850 .900	309	322
ş				.865	227	239		252		183	279 280 281	291 292 293 294	.850	308	321
7707				BE8.	226	238	.637.798	152	260	803.	279	292	775	307	320
100				.700	225	131	.637	250	263	.760	278	762	325	908	3/9
7AP LOCATIONS	.793	2/6	1							.565 .760 .608 .687 .905 .953	277	8	550	908 508	318
1 1	122	215	1	1997	224	236	.390	249	242	.402		582	400	33	317
inss:	.633	2/4	١	3%	223	23	.246	246	192	274	275 276	388	8	33,	3/6
PRE	145	2/3	١	622:	22	234	.163	2007	260	111	274	182	150	302	315 316 317 318 319
WING PRESSURE	429	212	1	75CO.	221	233	.086.163	349	652	.020 .040 .083 .177 .274		38%	080.150	18	3%
1	LPP.	21/	1	8	220	232	020.050.	245	328	.000	272 273	183 284 285 286	020.050	8	313
LEFT	113	210	١	010.020	219	133/	020.	244 245	257	020	112	88	020		311 312 313
	.041	209	١	010	218	230	00	283	256	0.0	220	283	0/0	298 299	
	0	308	ı	C	2/7		0	242		0	27 697		S	297	
	x/c	100	BOT	x/c	001	EST	*	90	BOT	×	B	BOT	×	82	100
2					04/682	<u> </u>			<u> </u>		427 200	<u> </u>			٠
22		.235/10			8			34 170			427			SS 185	

TABLE V. - Concluded.

W K		0	571		Š	3		B			8			*			8	
16 EM		3	4		0	α		9	6		0	9		00	1		14	
												 	 		-	-	Ť	
				T				-								-		
	ia		347	\$											-			
×5 ×5	32	385	3%	8														
LOCATIONS	G.S.	334	345	8						07		388						
707	312	333	341	12			8	357	376	38	376	385 386						
747	Ŕ			22.	332	343	É	356	3%	32		384						
1	Ŕ				33/	342	£.	335	384	SZ. 039.	32	333	298	394	199			
PRESSURE	sp.			08. 04. 05. 02. 02. 020. 010.	330	32/	350 65	35.0	363	40	375	38	_		300			
SES.	3%			8	329	3%	33.	353	362	28	372	38/	523		399			
WING /	B			8	328	339	180		196	œ/:	371	38	99. E.B. SE.	390 391 392	338	-		
N.	90.			30.	327	338	030 050	35	360	80	32	379	157	38	397			
(EFT	020			020	326	337	020	350	359	00.00.000		378	.069	339	396			
7	0.00 0.00			0/0	38	336	90	340	358	0/0	368 369	377	.020 .069	388	385	.733	403	
	0			0	324		0	318		0	367		0	is.		£#.	Per 402	
	1/2	20	50T	1/2	B	<i>B</i> 07	<i>%</i>	18	897	žį.	90	BOT	×	92/	BOT	K		By I
>9		641 300 10p			673 375			365			415			12			E33	
10		<u></u>			673			88			.887			-972 455			9	

TABLE VI.

ORBITER WETTCALTAIL & SPEED BRAKE

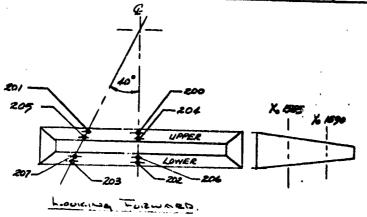
PRESSURE TAF LOCATIONS

ERTICEL	VERTICEL (LHOMS)				•	x/cr	,						B 3 1
Sall	Z. ELL E. MODEL	1/2	0	.025	.05	-15	30	52	.685	0 .025 .05 .15 .30 .52 .685 .775 .90 ms	8	33	M. S.
550	/6.5	53	30	430 431 432 433	432	433	434	435	964 964 764	180		B	Ø
600	18.0	316.	838	439 410 401 442 443 444	010	100	402	443	777	7th 5th	440	6	13
645	19.35	.458							1969	SOW SOW	14.46	w	22
690	2020	.600 NT 418 db 450 451 d52 d53	417	871	945	8	451	452	653	454	455	ď	62
720	21.6	.720							1453	1950	20	es.	32
765	22.95	.620 456 457 458 459 460 au	450	457	23	650	40		462	PM 690	dit	0	16
792	23.76	. 925 des 466 des 468 des des 011	165	995	467	897	469	ap		215	473	6	50

	W.S.	4	0/	51	20	52	30
	7205	5	5	5	5	5	5
	.65 .90	986	28	815	028	82	8
		108	608	814	618	834	628
X/58,	8	83	808	613	618 818	pes [528	828
X	10 .25 .40	801 802 803 804 805	108	812 813 814 815		822	826 827 828 829 83
	0/:	108	908	811	816 817	821	826
	85/ _U	011:	254 806 807 808 809 805	402	.567	.706	.856
SPEED BROKE (" NSIDE)	3040 Z	18.0	18.9	8.61	20.7	21.6	22.5
SPEED A	Z FULL SCALE	009	630	999	689	720	750
							_

BOOVELAP PRESSURE TAP LOCATIONS

ORBIT	ER-X.	1	\$-1	A CREES		
FULL SCALE	MODEL Scale	X./L.	0	40	16. TAPS	£ No
	46.65	1.018	200	201	2	2
1555L	46.65	1.018	202	203	2	-
1590 U		1.006		205	2	1 2
1590L	47.70	1.046	206	207		A



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Notes

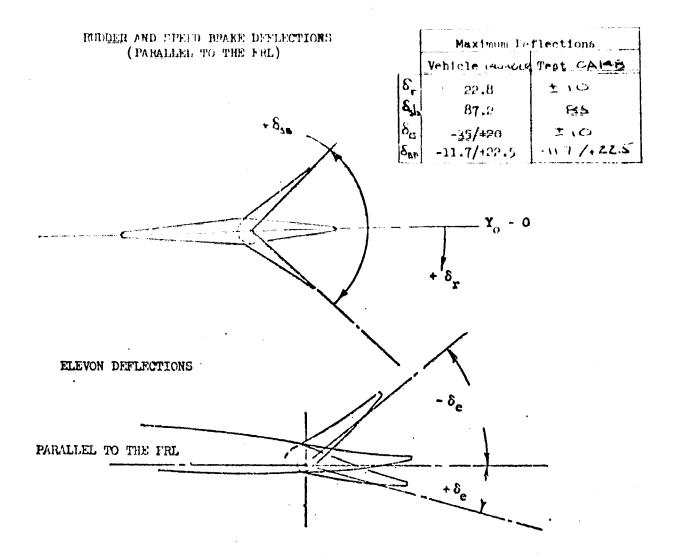
1. Positive directions of force coefficients, moment coefficients, and angles are indicated by arrows

For clarity, origins of wind and stability
 axes have been displaced from the center
 of gravity

Ø 8

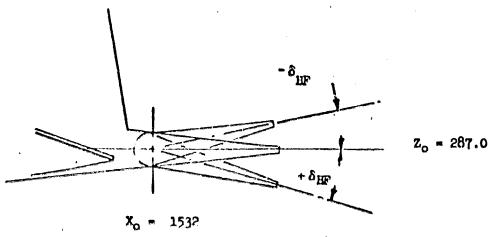
a. Orbiter Axis Systems

Figure 1. - Axis systems and sign conventions



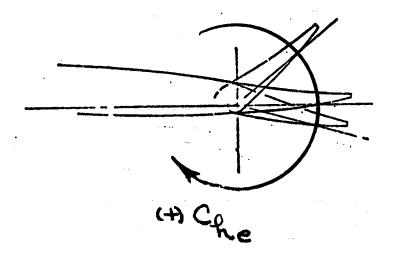
BODY FLAP DEFLECTIONS

()



b. Definition of Angular Measurements

Figure 1. - Continued.



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c. Elevon Hinge Moment Sign ConventionFigure 1. - Concluded.

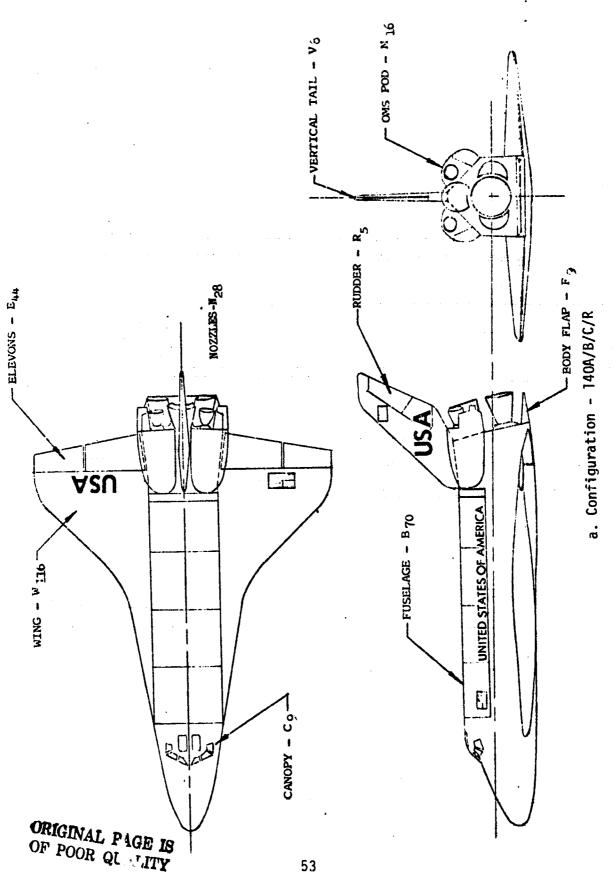
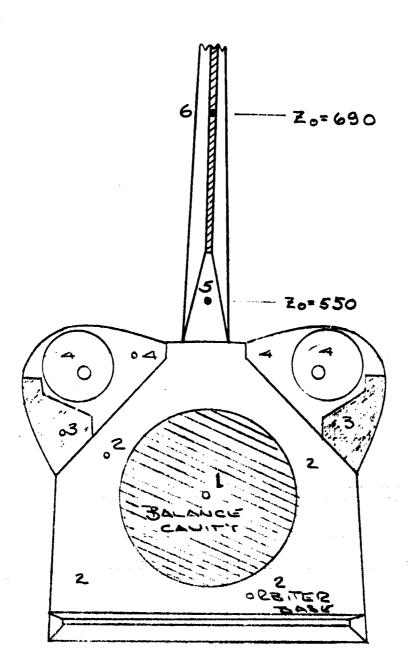


Figure 2. - Model sketches.

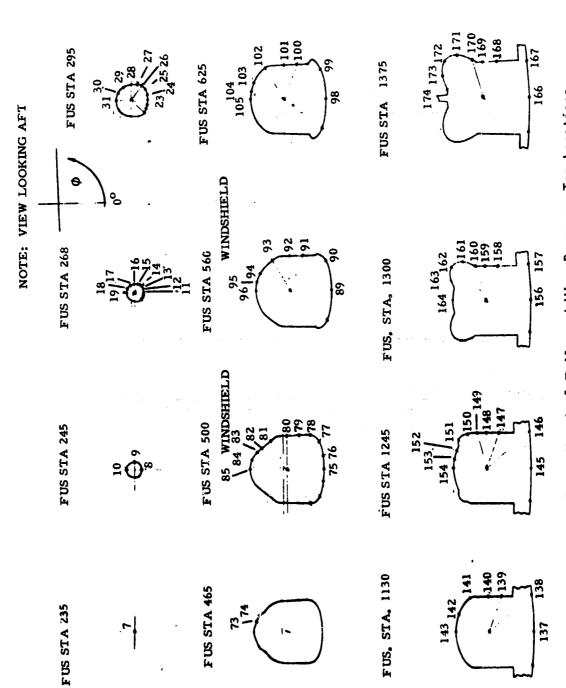


AREA NO.	PROJECTED BRIAL VALUE
^ \	0.076699 612
A2	0 215695 12
A3	0 034072 311
Δ4	0 074167(12

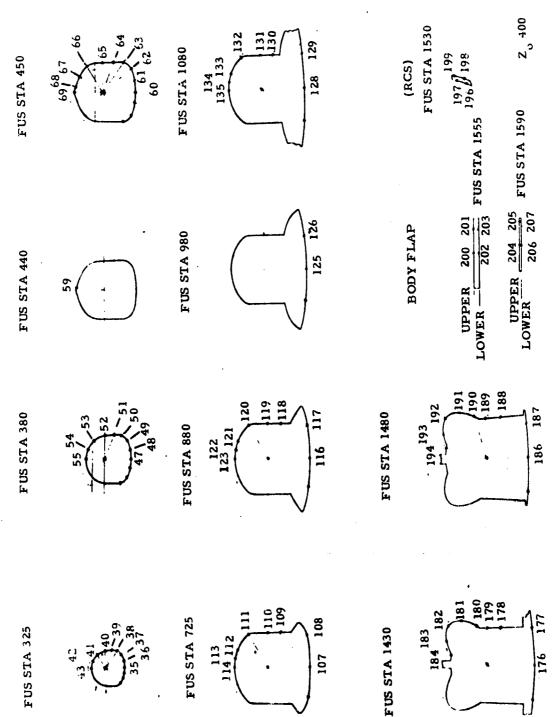
b. Base Pressure Taps and AreasFigure 2. - Continued.

f,

c. Fuselage, Vertical Tail, and Wing Pressure Tap Locations Figure 2. - Continued.



c. Fuselage, Vertical Tail, and Wing Pressure Tap Locations Figure 2. - Continued.



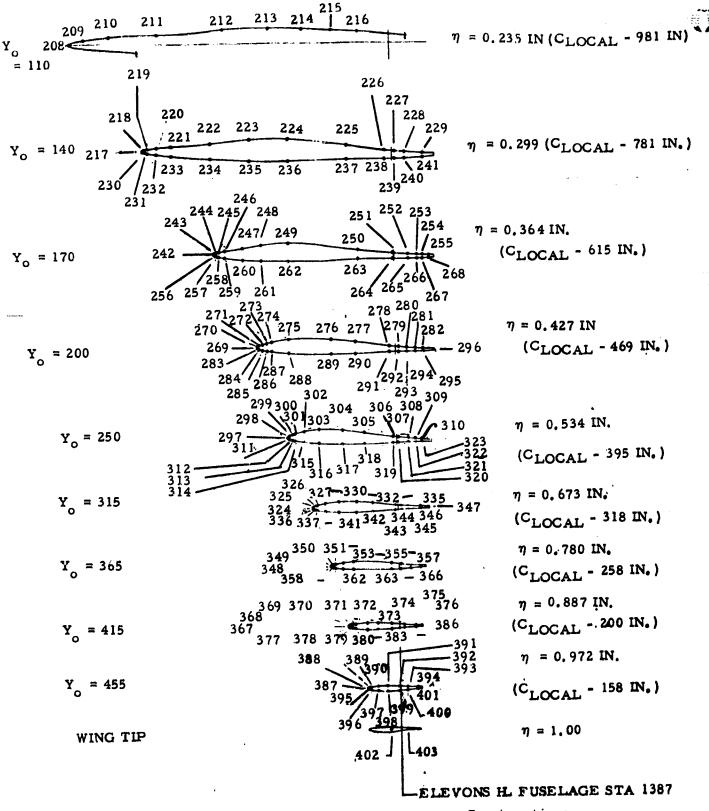
()

c. Fuselage, Vertical Tail, and Wing Pressure Tap Locations Figure 2. - Continued.

C. Caller Section of the Control of

SECTION CONTRACTOR SECTION

PRESSURE ORIFICE LOCATION OF LEFT WING PANEL



c. Fuselage, Vertical Tail, and Wing Pressure Tap Locations
Figure 2. - Continued.

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DATE 13 FEB 76 TABULATED PRI	TABULATED PRESSURE DATA - DAIWB (AMES 11-073-1	-073-1)				PAGE 5405
ł.	AMES 11-073(0A148) -140A/B/C/R	-140A/B/C/R ORB BODY FLAP UP	•	(XEBF01)		(05 AUG 75)
REFERENCE DATA				PARAMETRIC DATA	DATA	
SOEF * 2590.0000 SO.FT. XMRP * 1076 LREF * 474.8000 IN. YMRP * 675 BPEF * 935.0580 IN. ZMRP * 375 SCALE * .0300	1076.6800 IN. XO .0000 IN. YO 375.0000 IN. ZO		RUDDER = BOFLAP = R-ELVN =	.000 16.300 .000	SPDBRK = L-ELVN = MACH =	55.000 .000 1.400
ALPHA (1) = -4.099 BETA (1) = -	-3.881 MACH = 1.3933	0 - 599.80	۵.	* 441.36	RN/I	= 2.9078
SECTION (1)BODY FLAP UPPER	DEPENDENT VARIABLE CP				•	
X/LB 1.0180 1.0460						
PHI .00033153267 40.00036303735						
ALPHA (1) = -4.089 BETA (2) =	.154 MACH * 1.3933	0 = 599.80	. .	- 441.36	PN/L	2.9078
SECTION (11BODY FLAP UPPER	DEPENDENT VARIABLE CP		.•		!	
X/LB 1.0180 1.0460						
PH1 .05032713209 .00.004						
ALPHA (1) = -4.099 BETA (3) =	4.236 MACH = 1.3933	Q = 599.80	٥.	= 441.36	RN/I	87,00,9
SECTION (1)BODY FLAP UPPER	DEPENDENT VARIABLE CP					
X/LB 1.0180 1.0460	,					
PH; .00033823387 40.00035003538		g see				
ALSHA (2) =076 BETA (1) = -:	-3.908 MACH = 1.3937 (0 = 599.50	a .	68.044 •	PN/L	- 2.9103
SECTION (1) BODY FLAP UPPER	DEPENDENT VARIABLE CP					
X/LB 1.0180 1.0450						
PHI .000 - 3298 - 3321 9.000 - 3500 - 3603						

DATE 13 FEB 76 TABULATED PRESSURE DATA - DAINB (AMES 11-073-1)			·. · · · · · · · · · · · · · · · · · ·	. —	PAGE 5406	
AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP UP	FLAP UP		(XEBF01)	•		
ALPHA (2) =17; BETA (2) = .147 MACH = 1.3937 0 =	599.50	۵.	8.044 *	FRAZ	- 2.9103	M
SECTION (1)BODY FLAP UPPER DEPENDENT VARIABLE CP						
X/LB 1.0180 1.0450						
PHI .00032703313 40.0003773640					• • •	
ALPHA (2) =058 BETA (3) = 4.215 MACH = 1.3937 0 =	599.50	۵.	■ 440.89	RN/L	* 2,9103	M
SECTION (1) BODY FLAP UPPER DEPENDENT VARIABLE CP						
X/LB 1.0180 1.0460						
PHI .0cc34713514 40.0cc3+093579						
ALPHA (3) = 3.825 BETA (1) = -3.904 MACH = 1.3940 0 = (600.03	Δ.	= 441.12	RN/L	* 2.9038	•
SECTION (!) BODY FLAP UPPER DEPENDENT VARIABLE CP						
X/LB 1.0180 1.0460						
PHI .00033513391 +0.00034793575						
ALPHA (3) = 3.825 BETA (2) = .146 MACH = 1.3940 0 = 6	600.01	۵.	= 441.12	RN/L	- 2.9038	_
SECTION (1) BODY FLAP UPPER DEPENDENT VARIABLE CP						
X/LB 1.0180 1.0460						
PHI . ዐርር 3357 3424 ትር.ዐርር 3383 3481						
ALPHA (3) = 3.827 BETA (3) + 4.205 MACH = 1.3940 Q = 8	500.01	۵	- 441.12	FN/L	= 2.9038	
SECTION (1) BODY FLAP UPPER DEPENDENT VARIABLE CP						
X/LB 1.0180 1.0460						
PH! .0503+333514 40.C703+053595						

PAGE 5407	(XEBF01)	* 441.12 RN/L * 2.9058				= 441.12 RN/L = 2.9058				* 441 12 RN/L * 2.9058				* 440.65 RN/L * 2.9230				= 440.65 RN/L = 2.9230			
		4				۵.				۵				۵.				7			
^	ODY FLAP UP	= 599.60				= 599.60				= 599.60				- 599.51				= 599.51			
11-073-1	/R ORB B	٥				o				ø				0				a			
PRESSURE DATA - CA148 (AMES 11-073-1)	AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP UP	-3.5J3 MACH = 1.3935	DEPENDENT VARIABLE CP			.143 MACH = 1.3935	DEPENDENT VARIABLE CP			4.207 MACH = 1.3935	CEPENDENT VARIABLE CP			-3.884 MACH = 1.3941	DEPENDENT VARIABLE CP			.151 MACH = 1.3941	DEPENDENT VARIABLE CP		
TABULATED F		(1) =				(5)			•	(3) =								= (2)			
DATE 13 FEB 75 TAB		ALPHA (4) = 7.859 BETA	SECTION (1) BODY FLAP UPPER	X/LB 1.0180 1.0450	PHI .00035213542 40.00035973745	ALPHA (4) = 7.859 SETA	SECTION (1180DY FLAP UPPER	X/LB 1.0:60 1.0450	2892 5452 300.04 6252 6645 300.04	ALPHA (4) = 7.869 BETA	SECTION (1) BODY FLAP UPPER	X/LB 1.0:83 1.0463	PHI .CCC - 3357 - 3593 .00.00 - 3522 - 3746	ALPHA (5) = 11.904 BETA (SECTION (1) BCDY FLAP UPPER	X/LB 1.0180 1.0460	PHI .00037533734 .0.00036243713	ALPHA (5) * 11.913 BETA (SECTION: (11800Y FLAP UPPER	X/LB 1.0180 1.0460	HH -00037233775 -0000389738972

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DATE 13 FEB 76 TABULATED	u.	PRESSURE DATA - OAIHB (AMES 11-073-1) AMES 11-073(DAIHR) - INDAMBACA DAB BOWN ELAD IND	9		ACOCOLO .	a:	PAGE 5408
		AFES 11-0/310A148/ -140A/B/C/R ONB BOOT FLAP	3		CXECT 017		
ALPHA (5) # 11.909 BETA (3)		4.219 MACH = 1.3941 Q = 599.51	.51 P	*	440.65	FN/L	₽ 2,9230
SECTION 1 13BCDY FLAP UPPER		DEPENDENT VARIABLE CP					
X/LB 1.0180 1.3450							
PH1 .500 -,3706 -,3609 +0.000 -,3854 -,3938						·	
ALP4A (6) # 15.872 BETA (1)		~3.862 MACH * 1.3935 0 * 599.60	.50 P	÷	11.12	Z.	2.9239
SECTION (1) BODY FLAP UPPER		DEPENDENT VARIABLE CP					
X/LB 1.2180 1.0450		·					
1995 - 3884 - 3707 1000 - 3884 - 3865 10000 - 3841							
ALPHA (5) = 15.886 BETA (2)	Ħ	.149 MACH = 1.3935 Q = 599.60	.50 P	÷	441.12	., Æ	. 2.9239
SECTION (11BODY FLAP UPPER		DEPENDENT VARIABLE CP					
X/LB 1.0183 1.0460							
143 1000 - 3936 - 3660 140-3004 - 1603							
ALPHA (6) = 15.901 , BETA (3)		4.249 MACH = 1.3935 0 = 599.60	.60 P	3	51.14	Z¥.	• 2.9239
SECTION (11BODY FLAP UPPER		DEPENDENT VARIABLE CP					
X/LB 1.0180 1.0460							
PHI .000 -,38653598 .00.004 05183		Ţ					

CATE :3 FEB "5 TABULATED PRESSURE DATA - OAI48 (AMES 11-073-1)		;	
AMES 11-073/0A148) -140A/B/C/R ORB BODY FLAP UP	(XEEF02)		95 AUG 75)
REFERENCE DATA	PARAMETR1C	DATA	
SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO RUDDER = 900000 SQ.FT. LREF = 474.8000 IN. YMRP = 0000 IN. YO SQFLAP = 9000 IN. ZO BRF = 936.0890 IN. ZMRP = 375.0000 IN. ZO R-ELVN = R-ELVN	.000 .000 .000	SPOBRK = L-ELVN = MACH =	85.00 . 200 200
ALPHA (1) = -4.081 BETA (1) = -3.888 MACH = 1.2475 0 = 599.57 P	• 550.40	PN/L	3.0108
SECTION (1)BODY FLAP UPPER DEPENDENT VARIABLE CP			
X/LB 1.0180 1.0460			
PH: - 3555 - 3558 - 000.04			
ALPHA (1) = -4.075 BETA (2) = .154 MACH = 1.2475 Q = 599.57 P	■ 55C.4D	ž	3.0108
SECTION (1)BODY FLAP UPPER DEPENDENT VARIABLE CP			
X/LB 1.0180 1.0450			
PH! .00035643518 40.00038093976			
ALPHA (1) = -4.083 BETA (3) = 4.234 MACH = 1.2475 Q = 599.57 P	• 550.40	RN/L	3.9108
SECTION (1)BODY FLAP UPPER DEPENDENT VARIABLE CP			
X/LB 1.0180 1.0450			
PH1 .00037544050 40.00037684000			
ALPHA (2) =037 BETA (1) = -3.909 MACH = 1.2477 0 = 599.51 P	= 550.16	PN/L	± 3.n131
SECTION (1)BODY FLAP UPPER DEPENDENT VARIABLE CP			
X/LB 1.0180 1.0460			
PH1 .00037183709 40.00038643926			

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FAGE 941:		3.0.37				3.0.3				3.0137				3.0172				3.0172			
7. Q						•				*				۴				M			
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	(2)																				
	14EBED2	ř.				551.34				551.34				552.04				552.04			
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	LAP	599.63				599.60				599.EC				599.20				599.2º			
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173-1	99 92	_												_				_			
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PRESSURE DATA - DAIHB (AMES :11-073-1)	AMES 11-07310A148) -146A/8/C/R 0R8 BODY FLAP UP	1.2465	e S			5 1 85	a S			1.2465	g			24.25	g.			1.2452	<u>a</u>		
184	14(ABLE			≈ 1.2455	ABLE				ABLE			= 1.2452	ABLE			1.6	ABLE		
- 0A1	4148)	# T	VARI				VAR			11	VARI				VARI				VARI		
ATA	73(0)	RACH	DEPENDENT VARIABLE CP			MACH	DEPENDENT VARIABLE CP			MACH	LEPENDENT VARIABLE CP			MACH	DEPENDENT VARIABLE CP			MACH	DEPENDENT VARIABLE CP		
ንድ ם	11-0		SEPEN			.143	CEPEN			4.209	J.PEN				SPEN			. 14.9	EPEN		
PES51	AMES	-3.905				•				±.				-3.887	_			-;	_		
		*				#				11				#							
TABULATED						9				3				-				<u>§</u>			
2		SETA	UPPER			BETA	H i∃de:∩			9ETA	COPER			BETA	UPPER			BETA	agdd:		
				. מאפי	8414		eg G	. C483	1. MORE 1. 1. Oct. (1.) 1. (1			1.0499	50 BB 51 51 51 51 51 51 51 51 51 51 51 51 51		다. 라	1 3.45 0	1.1		<u>ი</u> ეე	. 2450	មួយ ប្រជា ប្រជា
		1 0 0	0 الج الد الح	*-*		, m	क्ष्मान ४	• •	0.10	9.7	0 4 1 5		(n) ⊷	G+6-11	Y FLAP			11.952	Y FLAP	F-4	
75		11	1.180DY	1.0183	3929 4119	11	:) SODY	. 3183	M CI M CI M I	II	1.000 V	1.0183	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	+-a }	13BODY	3.5	0 B	- 1	1:8003	:.ciB0	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
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TE 13		ALPHA (No.Los	87	# 6 6 1	ALPELL	VO: 103	αı	1	AHOLA	1	w		ज त ति	SECTION	m,	0000 TE	ALPHA (SECTION	m	PHI 1010101
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Q.

= 3.0172 PACE SHIP RN/L (XEBF02) 552.04 AMES 11-07310A148) -1407/B/C/R ORB BODY FLAP UP TABULATED PRESSURE DATA - DAINB (AMES 11-073-1) 4.215 MACH = 1.2452 DEPENDENT VARIABLE CP PETA (3) = SECTION (1) BODY FLAP UPPER 1.0180 1.0460 -.4133 -.4178 -.4198 -.4494 ALPHA (5) = 11.946 DATE 13 FEB 76 PH1 .000 40.000 X/LB

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DATE 13 FEB	3 76 TABULATED	PRESSURE DATA - 0A14 AMES 11-073(0A148)	HB (AMES 11-073-1) -140A/B/C/R ORB BODY FLAP UP		(XEBF03)	60 6	PAGE 5413
*. 44	REFERENCE DATA		•		PARAMETRIC	DATA	
SREF # 28 LREF # 28 BREF # 6	2590.3000 SQ.FT. XMRP = 674.8003 IN. YMRP = 936.0580 IN. ZMRP = .3300	1076.6800 IN. XO .0000 IN. YO 375.0000 IN. ZO		RUDDER = BOFLAP = R-ELVN =	.000 16.300 .000	SPOBRK = L-ELVN = MACH =	55.000 .000 1.100
	= -4.048 BETA (1)	-3.881 MACH = 1.0978	0 = 599,56	۵	= 710.72	RN/L	3.1865
SECTION (SECTION (1)BODY FLAP UPPER	DEPENDENT VARIABLE CP			··		
X/LB	1.0180 1.0460						
PH .045	40974201 430544 3 2	,					
ALPHA (::	= -4.035 BETA (2)	* 153 MACH * 1.0978	0 = 599.56	·.	- 710.7 2	RN/L	3.1865
SECTION C	1 BODY FLAP UPPER	DEPENDENT VARIABLE CP					
X/LB	1.0180 1.0450						
1Hd 000.04	-, 4046 -, 4149 -, 4121 -, 4403		·				
ALPHA (:)	= -4.044 BETA (3)	= 4.236 MACH = 1.0978	95.665 = 0	a.	= 710.72	RN/L	3.1865
SEC: 10N C	1 BOOY FLAP UPPER	DEPENDENT VARIABLE CP					
X/LB	1 3180 1 3460			•			
14d 000 04	41554322 41554606						
ALPHA : 21	=627 BETA (1)	= -3.903 MACH = 1.0988	G = 599.62	a.	= 709.5 +	È	= 3.1868
SECTION (1 BCDY FLAP UPPER	DEPENDENT VARIABLE CP					
X/LB	1.0180 1.0463						
000. 000. 000.04	41554129 42754384						

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DATE 13 FEB 76		TEO P	TABULATED PRESSURE DATA - OAI48 (AMES 11-073-1)	2				a.	PAGE 5414	±
			AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP UP	BODY FLAP UP			(XEBF03)			
A. PHA (2) =	023 BETA (- (2	.144 MACH = 1.0989 Q	± 599.62	۵.	. 7	709.54	RN/L	w W	3.1868
SECTION ()	SECTION (1)BODY FLAP UPPER		DEPENDENT VARIABLE CP							
X/LB 1	1.0180 1.0460									
P41 . 000 -	40694174 41214312									
ALPHA (2) =	029 BETA (33	4.209 iACH = 1.0988 0	= 599.62	C		709.54	FW/	m M	3.1868
SECTION (1	SECTION (1)BODY FLAP UPPER		DEPENDENT VARIABLE CP							
X/LB 1	1.0180 1.0469			•						
PH1 - 300 - 40.000	42654332 38604601									
ALPHA (3) =	3.833 BETA (- 1	-3.903 MACH * 1.0982 Q	= 599,43	Q.	7	710.01	PN/L	m M	3.1855
SECTION (1	SECTION (1)BODY FLAP UPPER		LEPENDENT VARIABLE CP							
אירם ו	1.0180 1.0450									
PH1 . 980 . 40. 000	-,4179 -,4153 -,4327 -,4329									
ALPHA (3) =	3.894 BETA (.147 MACH = 1.0982 0	= 599.43	۵.	. 7	710.01	RN/L	m m	3.1855
SECTION ()	1) BCDY FLAP UPPER		DEPENDENT VARIABLE CP							
X/LB 1	1.0180 1.0460									
PH1 .000. +0.000	41514225 42254433									
ALPHA (3)	= 3.895 BETA (3	3) =	4.201 MACH = 1.0982 Q	599.43	a.	. 7	710.01	FR/L	m M	3.1855
SECTION (SECTION (1)BODY FLAP UPPER		DEPENDENT VARIABLE CP							
X/LB 1	1.0:80 1.0%60									
PH1 .000 .000	45724365 41364176									

DATE 13 FEB 76	37 B3	TABULATED F	PRESSURE DATA - DAIH8 (AMES 11-073-1)		PA	PAGE 5415
		aton sa	AMES 11-073(04148) -140A/B/C/R ORB BODY FLAP UP	(XE8F03)		
ALPHA [4]	7 .835	BETA (1) =	-3.639 MACH = 1.0976 Q = 599.10 P	- 710.48	RN/L	3.1859
SECTION	SECTION (1) BODY FLAP UPPER	PPER	DEPENDENT VARIABLE CP			
X/LB	1.0180 1.0460					
РН1 .000 40.000	0194'- 8144'- 	5.0				
ALPHA ! 4)	- 7.886	BETA (2) =	.144 MACH = 1.0976 0 - 599.10 P	= 710.48	FRV.L	3.1859
SECTION	SECTION (1)BODY FLAP UPPER	PER	DEPENDENT VARIABLE CP			
X/LB	1.0180 1.0450	•				
7H1 .000 40.000	43754409 43704526	<i>a</i> . <i>a</i> .				
ALPHA (4)	- 7.886	BETA (3) =	4.200 MACH = 1.0976 Q = 599.10 P	= 710.48	FN/L *	3.1859
SECTION	SECTION (1)BODY FLAP UPPER	PER	DEPENDENT VARIABLE CP		•	
x/La	1.0180 1.0453	, st. mil				
PHI .033 40.000	45624619 44164579					
ALPHA (5)	11.990	BETA (1) =	-3.881 MACH = 1.0978 0 = 599.38 P	= 710.48	FRV/L =	3.1856
SECTION	SECTION (1)BODY FLAP UPPER	PER	DEPENDENT VARIABLE CP			
X/LB	1.0180 1.0450	_				
PHI .000 40.009	45594555 47394856					
ALPHA (5)	• 11.997	BETA (2) =	.149 MACH = 1.0978 Q = 599.38 P	* 710.48	FN/L -	3.1856
SECTION :	SECTION (1)BODY FLAP UPPER	PER	DEPENDENT VARIABLE CP			
X/LB	1.0180 1.0460	-				
PH1 .050	8444 2424	_				

Sale Brieff St. College St. Co

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PAGE 5416

3.1856

(XE8F03) 710.48

TABULATED PRESSURE DATA - OAI+8 (AMES 11-073-1) DATE 13 FEB 76

AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP UP

= 599.38 G 4.212 MACH = 1.0978 BETA (3) = ALPHA (5) * 11.992

DEPENDENT VARIABLE CP SECTION (1) BODY FLAP UPPER

1.0180 1.0460 PH:1 .000 +0.000 X/LB

-.4773 -.4988 -.4732

. 70 mm m

FAGE 5417 AMES 11-073(0A148) -140A/B/C/R ORB BCDY FLAP UP (XEBF04) (05 AUG 75)	REFERENCE DATA	.0000 SO.FT. XMRP = 1076.6800 IN. XO	-4.058 BETA (1) = -3.880 MACH = .89913 Q = 599.67 P = 1059.7 RN/L = 3.5733	SECTION (1)BODY FLAP UPPER DEPENDENT VARIABLE CP	0.180 1.0450	31223203 30363423	-4.036 BETA (2) = .153 MACH = .89913 Q * 599.67 P * 1059.7 RN/L * 3.5733	SECTION (1)BODY FLAP UPPER DEFENDENT VARIABLE CP	0:80 1.0460	35053071 32673479	-4.047 BETA (3) = 4.237 MACH = .89913 0 = 599.67 P = 1059.7 RN/L = 3.5733	1)BODY FLAP UPPER DEPENDENT VARIABLE CP	0180 :.0460	3006 - 3037 3344 - 3619	025 BETA (1) = -3.907 MACH = .89827 0 = 599.10 P = 1060.7 RN/L = 3.5698	SECTION (1)BODY FLAP UPPER DEPENDENT VARIABLE CP	0180 1.0460	
76	REFERENCE (2690.0000 SQ.FT. 474.8000 IN. 936.0680 IN.		BODY FLAP UF	1.0180 1.0450	31223203 30363423		180DY FLAP UF	1.0180 1.0460	36053071 32673479		BOOY FLAP UF	.0180	3006303 33443619		1800Y FLAP UF	1.0180 1.046	
DATE 13 FEB 76		SREF = 269 LREF = 47 BREF = 93 SCALE =	ALPHA (1) =	SECTION (1	X/LB 1	1 000. 1 000.	ALPHA (1) =	SECTION (1	X/LB 1	PH1 .000.	ALPHA (1) #	SECTION ()	X/LB 1	PH1 .000 +0.000	ALPHA (2) #	SECTION (1	X/LB 1	T T

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DATE 13 FEB 76	B 75		7	BULATED	PRESSU	FRE DAT	ે •	A148	TABULATED PRESSURE DATA " DAI48 (AMES 11-073-1)	1-073-1	_				L	PAGE 5418	S# 18
					AMES	11-073	STOATH	9) -11	AMES 11-07310A148) -140A/B/C/R ORB BODY FLAP UP	R ORB E	3004	LAP UP		(XE8F04)			
ALPHA (2)		020	BETA	(2)	:	771.	MACH	~; #	.89827	ø		599.10	٩	1060.7	1 / 8 2/		3.5698
SECTION (1)BODY FLAP UPPER	1) BODY	FLAP 1	JPPER		۵	DEPENDENT VARIABLE CP	INT VA	RIABLE	ر د د								
X/LB	1.0180	1.6460	30														
PH1 .000 40.000	2879	2951	:2 22														
ALPHA (2)	,	027	BETA	(3) =	æ.	4.215 M	MACH	w.	.89827	0		599.10	۵.	1.050.7	3		3.5698
SECTION (11800Y FLAP UPPER	1) BODY	FLAP L	B 3ddí		ō	DEPENDENT VARIABLE CP	NT VAF	1 ABLE	<u>a</u> 3								
x/LB	1.0180	1.0463	Ö														
PH1 .639 40.000	3019 3218	3139	Θ.Y.						į.								
ALPHA (3)	•	3.898	BETA	(1)	-3.912		МАСН	w.	.89833	o		598.89	۵.	1060.2	F8/1		3.5704
SECTION (1) SCDY FLAP UPPER	FLAP L	PPER		Ö	DEPENDENT VARIABLE CP	NT VAS	NABLE	a 3								
x/L8	1.0180	1.0450	Ö														
PH1 . C00 40.000	298 5 3198	2958	ខ្លួន					٠.									
ALPHA (3)	4	3.896	BETA	. es		.152 M	MACH		.B9833	o		598.89	۵.	1060.2	Z/SE		3.5704
SECTION (1)BODY FLAP UPPER	1.18CDY	FLAP L	PPER		ă	DEPENDENT VARIABLE CP	NT VAS	1 ABLE	8								
X/LB	1.0180	1.0463	65														
PH1 .000 ¥0.5≎3	2931 3007	2856 3180	Άδ				.'										
ALPHA (3)	77	3.899	BETA	(3) *	4.208		MACH		.89833	0		598.89	۵.	1060.2	1/NG		3.5704
SECTION (1390DY FLAP UPPER	1390DY	FLAP U	PPER		ā	DEPENDENT VARIABLE CP	NT VAS	1 ABLE	8								
X/LB	1.0180	1.0450	9														
PH1 .500 .050	2955 3001	3123	МС									ı					

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DATE 13 FEB 76 TABULATED P	TABULATED PRESSURE DATA - OATH8 (AMES 11-073-1)			ď.	PAGE 5419
	AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP UP	ap ap	(XEBF04)		
ALPHA (4) = 7.895 BETA (1) =	-3.903 MACH = .89900 0 = 50	599.51 P	= 1059.7	RN/L	3.5708
SECTION (1) BODY FLAP UPPER	DEPENDENT VARIABLE CP				
X/LB 1.0180 1.0460					
PHI .00028292946 40.00070513182					
ALPHA (4) = 7.900 BETA (2) =	.140 MACH = .89900 Q = 55	599.51 P	- 1059.7	FRV/L	= 3.5708
SECTION (1) BODY FLAP UPPER	DEPENDENT VARIABLE CP				
X/LB 1.0180 1.0450					
PH1 .C0028562933 +0.00028473000					
ALPHA (4) = 7.897 BETA (3) =	4.209 MACH * .89900 Q = 59	599.51 P	= 1059.7	FN/L	= 3.5708
SECTION (1) BODY FLAP UPPER	GEPENDENT VARIABLE CP				
X/LB 1.0180 1.0450					
PHI .30029783333 40.00027572870					
ALPHA (5) = 11.985 BETA (1) =	-3.890 HACH * .89830 Q * 59	599.10 P	= 1060.7	RN/L =	3.5735
SECTION (1) BODY FLAP UPPER	DEPENDENT VARIABLE CP				
X/LB 1.0180 1.0450					
PH1 .00029923133 50.00029893135					
ALP4A (5) * 11.993 BETA (2) =	152 MACH = .89830 0 = 59	599.10 P	- 1060.7	RW/L -	3.5735
SECTION (1)BODY FLAP UPPER	DEPENDENT VARIABLE CP				
X/LB 1.0180 1.0450					

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= 3.5735 PAGE 5420 PN'L (XEBF04) 1060.7 AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP UP TABULATED PRESSURE DATA - DAIM8 (AMES 11-073-1) DEPENDENT VARIABLE CP MACH 4.122 ALPHA (5) = 11.982 BETA (3) = SECTION (1) BODY FLAP UPPER -.3061 1.0180 1.0460 -.3020 DATE 13 FEB 75 PH1 .000 .004 X/LB

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DATE 13 FEB 76 TABULATED P				PAGE	
	AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP UP	an an	(XEBF 05)	1 05 AUG 75)	
REFERENCE DATA			PARAMETRIC DATA	ATA	
SPEF = 2690.0000 SO.FT. XMRP = 10 LAEF = 474.8000 IN. YMRP = EREF = 936.0680 IN. ZMRP = 3 SCALE * .0300	1076.6800 IN. XO .0000 IN. YO 375.0000 IN. ZO	RUDDER = BDFL AP = R-EL VN =	.000. 16.300 1 000.	SPOBRX = 55.000 L-ELVN = .000 MACH = .600	
ALPHA (1) = -3.995 BETA (1) =	-7.893 MACH * .59580 Q * 55	593.15 P	= 2387.2	RN/L = 4.8118	6
SECTION (1) BODY FLAP UPPER	DEPENDENT VARIABLE CP				
X/LB 1.0180 1.0460					
PHI .03024152376 90.00328143192				ę	
ALPHA (1) = -3.58! BETA (2) =	-3.877 MACH * .59580 Q * 55	593.15 P	= 2387.2	RN/L = 4.8118	80
SECTION (1)BODY FLAP UPPER	DEPENDENT VARIABLE CP			•	
X/LB 1.0:80 1.0460					
FH1 .03024842395 40.03027633076					
ALPHA : 1) = -3.973 BETA (3) =	.156 MACH * .59580 0 * 59	593.15 P	= 2387.2	RN/L = 4.8118	6 0
SECTION (1) BODY FLAP UPPER	DEPENDENT VARIABLE CP				
X/LB 1.0180 1.0450					
FH1 .00g23952424 40.00027613164					
ALPHA (1) = -3.981 BETA (4) =	4.231 MACH = .59580 0 = 59	593.15 P	≈ 2387.2	RN/L * 4.8118	00
SECTION (1)BODY FLAP UPPER	DEPENDENT VARIABLE CP				
X/LB 1.0!80 1.0%50					
PHI . 000 2369 40. 000 2806 3154		,			

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DATE :3 FE9 76 TABULATED PRI	PRESSURE DATA - DAIMB (AMES 11-073-1)	1-073-1				14	PAGE 5422	25
A	AMES 11-07310A148) -140A/B/C/R ORB BODY FLAP UP	R ORB BODY	FLAP UP		(XEBF05)			
ALPHA (1) = -3.995 BETA (5) =	8.308 MACH ≈ .59580	•	593.15	۵	• 2387.2	7	#	4.8118
SECTION (1)BODY FLAP UPPER	DEPENDENT VARIABLE CP							
X/LB 1.0180 1.0460								
PH1 .00024432578 40.00027413139								
ALPHA (2) =001 BETA (1) =	-7.930 MACH = .59552	•	592.55	Q.	= 2387.2	RN/L	± #	4.8092
SECTION ! ! BODY FLAP UPPER	DEPENDENT VARIABLE CP							
X/L3 1.0180 1.0460								
PH; .00024972458 40.00028573119								
ALPHA (2) = .008 BETA (2) = .	-3.896 MACH ≈ .59552	0	592.56	Ω.	= 2387.2	3 8/1	# #	¥.8092
SECTION (1)BODY FLAP UPPER	LEPENDENT VARIABLE CP							
x/LB 1.0180 1.0460								
981 . 300 - 2455 - 2431 90.000 - 2755 - 3095								
ALPHA (2) = .009 BETA (3) =	.144 MACH = .59F52	0	592.56	۵.	= 2387.2	RNIL	±	4.8092
SECTION (1)BODY FLAP UPPER	DEPENDENT VARIABLE CP							
X/L9 1.0180 1.0460								
PH: 5045 5045 505.04								
ALPHA (2) = .008 SETA (4) =	4.214 MACH = .55552	•	592.56	C	s. 2387.2	FA	 	4.80 9 2
SECTION (1)BODY FLAP UPPER	DEPENDENT VARIABLE OF							
x/LB 1.0180 1.0450								
PH1 -00023932489 40.00027783055								

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E : : 1 1.8047 PAGE 5-25 6 Ž Ž K (SEBC15) 2388.9 2386.2 2339.2 2388.2 2388.2 Ű. AMES 11-073(0A198) -190A/B/C/R 0RB BODY FLAP UP 590.57 531.86 391.83 591.86 551.86 TABULATED PRESSURE DATA - DAINB (AMES 11-073-1) O G ¢, .59428 . 59502 ± .59502 DEPENDENT VARIABLE CP .59502 DEPENDENT VARIABLE OF DEPENDENT VARIABLE CP DEPENDENT VARIABLE CF DEPENDENT VARIABLE CP -7.881 MACH MACH .150 MACH MACH RACH 8. 254 -3.874 4.211 e ຄົນ ເ 33.4 ドテレ ິດ BETA = 12.008 BETA AE TA 뭐기 3E 7A RESTRUCTION OF TAXABLE PARTY OF SERVICE OF S SECTION (138038 FLAG UPPER SECTION (1780 PLA GLAS SECTION | DISCONTINUES UPPER SECTION # 1:803% FLAP UPPER 1.3163 1.3463 7.8885 -.2959 -.2947 -.2559 +.2871 1.9183 1.0483 1.0180 1.0-80 1.26484 - 2553 1.2648 - 2553 1.0180 1.0+50 # 2557 + E345. + e375. + e375. - e375. 1.0180 1.0463 ALPHA (51 = 12.028 1.887 12.02a CECHE IN CECHE (3 (4) (5) (5) (6) (7) (7) (7) ្រុ មិន្ត្រ មិន្ត្រ CATE 33 FEB 76 H CO L WIND ATE I THERE # 000 000 1 000 1 000 1 000 , t m Too 国门区 m X

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. 1	AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP UP	= 591.85		
1-073-	R ORB	o		
ABULATED PRESSURE DATA - DAI48 (AMES 11-073-1)	-140A/B/C/	. 59502	BLE CP	
¥ ! ¥	8	Ħ	RIA	
DATA - C	073:0A14	MACH	DEPENDENT VARIABLE CP	
RESSURE 1	AMES 11-	8.278	DEPE	
BULATED P		ALPHA (5) = 12.020 BETA (5) = 8.278 MACH = .59502		
TAI		BETA	SECTION (1) BODY FLAP UPPER	H20
		050	FLAP	1.0
		12.	ODY	1.0180 1.0450
3 75		H	1.18	1.0
1 E		ŝ	Z	
DATE 13 FEB 76		ALPHA (SECTIC	X/L9

= 4.8E47

RN/L

= 2388.2

(XEBF05)

PAGE 5426

PAGE 5427	(XEBF06) (05 AUG 75)	PARAMETRIC DATA	.000 SPDBRX = 55.000 22.500 L-ELVN = .000 .000 MACH = .600	2387.0 RN/L = 4.8396				2387.0 RN/L * 4.8396				2387.0 RN/L = 4.8396				2387.0 RN/L * 4.8396			
		PARA	 	*				н				4							
			RUDDER BDFLA? R-ELVN	۵				۵				۵	÷			0.			
	יראף עף			593.39				593.39				593.39				593.35			
(1-	BODY			*				H											•
11-073	/R ORB			a				o				0				0			
PRESSURE DATA - DATHE (AMES 11-073-1	AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP UP		1076.6800 IN. XO .0000 IN. YO 375.0000 IN. ZO	-7.883 MACH ≈ .59594	DEPENDENT VARIABLE CP			-3.877 MACH = .59594	DEPENDENT VARIABLE CP			.154 MACH # .59594	DEPENDENT VAPIABLE CP			4.235 MACH = ,59594	DEPRINDENT VARIABLE CP		
TABULATED F			* # #	= =				. (S) =				3) =				* (+)			
DATE 13 FEB 76 TABU		REFERENCE DATA	SPRE = 2690.0000 SO.FT. XMRP LRET = 474.8000 IN. YMRP BREF = 935.0590 IN. ZMRP SCALE = .0350	ALPHA (1) # -4.026 BETA (SECTION (1)BODY FLAP UPPER	X/LB 1.0180 1.0460	PH1 .0CD28762586 +0.0003524	ALPHA (1) = -4.010 BETA (SECTION (1) BODY FLAP UPPER	1.0180 1.046G	PH1 .00027542638 +0.00029533204	ALPHA (1) # -3.994 BETA (SECTION (1)BODY FLAP UPPER	X/LB 1.2180 1.0466	PH1 .00027532695 40.00030023329	ALCHA (1) = -4.001 BETA (SECTION (1) BODY FLAP UPPER	X/LB 1.0180 1.6460	PH1 .00027442621 40.03030833275

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14011 2 FEB 78	TABLE ATEN 6	COSCERNO DATA - CALLO / AMPE 11-570-	744	011	· SMC						/	٥	DACT 5420	007
	-	NE SOURE 1		9	י אייני	1-610-1	•					L	1	
		AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP UP	73(0A)	+8) -1	140A/B/C/	R ORB BC) 10.	LAP UP			(XEBF06)			
ALPHA (1) = -4.013 BETA (5) =	8.308	MACH		± .59594	o		593.39	۵	ru H	2387.0	RN/L	ar H	4.8396
SECTION (1) BODY FLAP UPPER		DEPEN	DEPENDENT VARIABLE CP	AR I ABL	E CP									
X/LB 1.0180 1.0450														
PHI .00027952824 .0.00030003127														
ALPHA (2) = .023 BETA (2 -	-7.929	MACH		.59630	σ		593.84	۵	n.	2385.7	FBN/L	*	4.8179
SECTION (1)BODY FLAP UPPER		DEPEN	DEPENDENT VARIABLE CP	AR I ABL	e CP			•						
X/LB 1.0180 1.0460														
PHI .00028242742 40.00029993309														
ALPHA (2) = .033 BETA (- (¿	-3.896	MACH		. 59630	ø		593.84	۵.	<u>ພ</u>	2385.7	SN/L	<i>3</i>	4.8179
SECTION (1) BODS FLAP UPPER		DEPEN	DEPENDENT VARIABLE CP	RIABL	E CP									
X71.3 1.0180 1.0460														
PH1 .00027872743 +0.00029583244														
ALPHA (2) =035 BETA (33 =	.147	HACH		. 59630	ø		593.84	۵.	N •	2385.7	RN/L	#	4.8179
SECTION (1)BODY FLAP UPPER		DEPEN	DEPENDENT VARIABLE CP	RIABL	E CP									
X/LB 1.0180 1.0465														
PH1 .00027272512 40.00028813205														
ALPHA (2) =050 BETA (• •	4.214	MACH		.59630	o		593.84	۵	iù #	2385.7	FB/L	<i>\$</i> .	4.8179
SECTION (1)BODY TAP UPPER		DEPEN	DEPENDENT VARIABLE CP	RIABLI	а С									
X/LB 1.0180 1.0460													en jeen	
PHI .03027372713 43.00030753301													tit i i i i i i i i i i i i i i i i i i	

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DATE 13 FEB 76 T	TABULATED	PRESSURE DATA - DAI48 (AMES 11-073-1)	A148 (AMES 1	1-073-1	_				PAG	PAGE 5429
	_	AMES 11-073(0A148) -140A/B/C/R GRB BODY FLAP UP	B) -140A/B/C/	R ORB BOI	OY FLAP UP		EX.	(XE8F06)		
ALPHA (2)045 BETA	(2) =	8.269 MACH	. 59630	o	· 593.84	۵	- 2385.7	.7 RN/L	» نے	4.8179
SECTION (1) BODY FLAP UPPER		DEPENDENT VARIABLE CP	RIABLE CP							
X/LB 1.0180 1.0460										
PHI .00029302853 +0.00030893303								s, 40g		
ALPHA (3) = 3,911 BETA	- 1 -	-7.932 МАСН	+6565. ■	ø	= 593.13	ο.	• 2385.8	B FN/L		4.8145
SECTION (1)BODY FLAP UPPER		DEPENDENT VARIABLE CP	NABLE CP							
X/LS 1.0180 1.0460										
PHI .C0028622828 .0.0303280										
ALPHA (3) = 3.915 BETA	(5	-3.897 MACH	- 5959 4	o	= 593.13	a	= 2385.8	8 RN/L		4.8146
SECTION (1) BODY FLAP UPPER		DEPENDENT VARIABLE CP	MABLE CP					* 114****		
X/L3 1.0180 1.0460						•		P11 -501 1· v		
PHI .00027992755 90.0003967										
ALPHA (3) = 3.912 BETA	(8)=	.150 MACH	59594	o	593.13	۵.	= 2385.8	- K		4.8146
SECTION (1)800% FLAP UPPER		DEPENDENT VARIABLE CP	1ABLE CP)
X/LB 1.0180 1.0460										
741 . 000 2782 2756 40.000 2886 3057										
ALPHA (3) = 3.921 BETA	# 	4.204 MACH	* .59594	ä	= 593.13	a	= 2385.8	BN/L	*	4.8146
SECTION (1)BOOY FLAP UPPER		DEPENDENT VARIABLE CP	IABLE CP							
X/LS 1.0180 1.0460								• Table of Mark		
PHI .C.3028312841 +8.30424973308										

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DATE 13 FEB 76 TABULATED P	PRESSURE DATA - OA148 (AMES 11-073-1))73-1)				PAGE 5430
	AMES 11-07310A146) -140A/B/C/R ORB BODY FLAP UP	JRB BODY FLAP UP		(XEBF06)		
ALPHA (3) = 3.925 BETA (5) =	8.248 MACH = .59594 C	0 = 593.13	۵	= 2385.8	RN/L	3+18·+ =
SECTION (1)BODY FLAP UPPER	DEPENDENT VARIABLE CP					
X/LB 1.0180 1.0460	**************************************					
PH1 .00030523093 40.00027802947						
ALPHA (4) = 7.957 BETA (1) =	-7.908 MACH = .59612 Q	593.49	۵.	- 2385.7	FN/L	* 4.8178
SECTION (1)BODY FLAP UPPER	DEPENDENT VARIABLE CP					
X/LS 1.0180 1.0460						
PHI .00029172818 46.00030373292						
ALPHA (4) = 7.956 BETA (2) =	-3.891 MACH * .59612 0	1 = 593.49	۵.	= 2385.7	PN/L	= 4.8178
SECTION (1)BODY FLAP UPPER	JEPENDENT VARIABLE CP					
X/L8 1.0180 1.0460						
PHI .60027502709 40.00028773136						
12PHA (4) = 7.972 BETA (3) =	.143 MACH = .59612 Q	\$ 593.49	۵.	= 2385.7	RN/L	4.8178
SECTION (1)BODY FLAP UPPER	DEPENDENT VARIABLE CP					
X/LB 1.0180 1.0460						
PHI .00027052753 40.00027512955						
ALPHA (4) = 7.971 BETA (4) =	4.201 MACH = .59612 0	593.49	۵	= 2385.7	RN/L	= 4 8178
SECTION (1) BODY FLAP UPPER	DEFENDENT VARIABLE CP					
X/LB 1.0180 1.0450						
PH1 .00029052876 40.00027263072						

OATE 13 FFB 75	TABLE ATEO	D DEFECTION DATA - DAILS / AMES 11-072-1)	PARE SH31
			(XEREOS)
ALPHA (4) = 7.569	69 BETA (5) =		= 2385.7 RN/L = 4.8178
SECTION (11800Y FLAP UPPER	LAP UPPER	NDENT VARIAE	
X/LB 1.0180	1.0460		
PH1 .0003177 +0.0002733	321 5 2996		
ALPHA (5) = 12.008	08 BETA (1) *	* -7.872 MACH * .47710 Q * 475.06 P	# 1908.1 RN/L # 3.9563
SECTION (1)BODY FLAP UPPER	LAP UPPER	DEPENDENT VARIABLE CP	
1.0190 X/LB 1.0190	1.3460		
PH1 . 500 2845 . 000.00+	2852 3165		
ALPHA (5) = 12.030	30 BETA (2) =	* -3.872 MACH * .47710 Q * 475.06 P	= 1908.1 RN/L = 3.8563
SECTION (1)BODY FLAP UPPER	LAP UPPER	DEPENDENT VARIABLE CP	
X/LB 1.0180	1.0450		
PH; .0002689 .0000 - 2720	<i>2725</i> 2989		
ALPHA (5) = 12.036	36 BETA (3) =	• .140 MACH • .47710 0 = 475.06 P	* :908.1 RN/L * 3.8563
SFCTION ! 1)BODY FLAP UPPER	AP UPPER	DEPENDENT VARIABLE CP	
X/LB 1.0180	1.0462		
PH1 . 0002792 - 40.00025655 -	2797 2905		
ALFHA (5) - 11.949	# (h) ¥138 6t	* 4.211 MACH . * 47710 Q * 475.06 P	* 1908.1 RN/L * 3.8563
SECTION (1)BODY FLAP UPPER	AP UPPER	DEPENDENT VARIABLE CP	
X/LB 1.0180 1	1.0460		
PHI .0002905 - 40.0002655 -	2959 2824		

3.2563 PAGE 5432 RN/L (XE8F05) 1908.1 AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP UP TABULATED PRESSURE DATA - 0A148 (AMES 11-073-1) 8.275 MACH = .47710 DEPENDENT JARIABLE CP 3ETA (5) = SECTION (1) BODY FLAP UPPER 1.0180 1.0460 -.3077 -.3077 -.2670 -.3010 ALPHA (5) = 12.026 DATE 13 FEB 76 PH1 .000 40.000 X/LB

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FAGE 5433 RESSURE DATA - OA148 (AMES 11-073-1) AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP UP BADAMETRIC DATA	# (BD-LAV = CE-300 HACH =	.39933 0 = 599.81 P = 1059.5 KN/L = 3.3037	a			.89933 Q = 599.81 P = 1059.5 RN/L = 3.5834	d)		1	3933 0 = 599.81 P = 1059.5 ANT.	d)		, !	1050 0 = 601.03 F = 1056.5	CD .		
DATE 13 FEB 76 TABULATED PRESSURE DATA - OAI48 (AMES 11-073-1 AMES 11-073-1	REFERENCE DATA	YMRP = .0000 ZMRP = .075.0000	(1) = -4.058 BETA (1) = -3.876 MACH =	SECTION (1)BOOY FLAP UPPER DEPENDENT VARIABLE	X/L8 1.0180 1.0460	794£ - 624£ - 000 - 145	# H3 H3 H2 H2 H3 H4CH = 153 MACH	1.80	X/LB 1.0;80 1.0453	PH) .00034143380 4p.C0034753800	ALPHA (1) = -4.057 BETA (3) = 4.237 MACH = .89	SECTION (1) BODY FLAP UPPER DEPENDENT VARIABLE	X/LB 1.0180 1.046C	PH1 .000 -,3344 -,3344 40.000 -,3599 -,3864	ALPHA (2) = .010 BETA (1) = -3.903 MACH * .91	SECTION 1 13 BODY FLAP UPPER DEPENDENT VARIABLE	X/LB 1.0180 1.0460	PH1 .05535933+87 un non3-58

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DATE 13 FEB 75 TABULATED P	PRESSURE DATA - DAINB (AMES 11-073-1)	1-073-1)			Δ.	PAGE 5434
	AMES 11-07310A1481 -140A/B/C/R ORB BODY FLAP UP	R ORB BODY FLAP UP		(XEBF07)		
ALPHA (2) = .014 BETA (2) =	.148 MACH = .96060	0 = 601.03	• a.	1058.5	¥.	3.5880
SECTION (1) SODY FLAP UPPER	DEPENDENT VARIABLE CP	,				
X/LB 1.0160 1.0460						
PHI .00031763299 40.00032303506						
ALPHA (2) = .013 BETA (3; =	4.211 MACH = .90060	0 = 601.03	•	1058.5	PN/L	* 3.5880
SECTION (!) BODY FLAP UPPER	DEPENDENT VARIABLE CP					
X/LB 1.0180 1.0460						
PHI .000. .000.0433583755		•				
ALPHA (3) = 3.998 BETA (1) =	-3.905 MACH = .90070	a € 600.82	.	1058.0	1/R	3.5882
SECTION (1) BCDY FLAF UPPER	DEPENDENT VARIABLE CP					
X/LB 1.018G 1.046G						
PHI .03532543386 035.04						
ALPHA (3) = 4.002 BETA (2) =	.135 MACH = .90070	600.82	# a.	1058.0	N.	3.5882
SECTION (1) BOOY FLAP UPPER	DEPENDENT VARIABLE CP					
X:28 1.0180 1.0460						
PH! .330 +.32543201 .93.30 +.32633328						
ALPHA (3) * 3.920 BETA (3) *	4.206 MACH = .90070	a = 600.82	" Q.	1058.0	- X	* 3.5882
SECTION (1)BODY FLAP UPPER	DEPENDENT VARIABLE CP					
X/L8 1,0180 1,0950						
PH1 .000 +,3327 -,2455 .400,000 +,3253 -,3575		;				

PAGE 5435		3.5837				= 3.5837				* 3.5837				= 3.5879				3.5879			
ã		PN/L				FN/L				1/8				1/16				1/NH			
	:XEBF07)	1059.9				1059.9				1059.9				1059.5				1059.5			
		ĸ												*							
		۵				۵				۵				۵				Q.			
	FLAP UP	599.20				599.20				599.20				599.98				599.98			
3-1)	* B0DY	Ħ				Ħ															
11-07	./R OR!	ø				ø				Ø				ø				O			
PRESSURE DATA - 0A148 (AMES !1-073-1)	AMES 11-073(0A148) -140A/B/C/R ORE BODY FLAP UP	-3.900 MACH = .89867	DEPENDENT VARIABLE CP			.143 MACH = .89867	DEPENDENT VARIABLE CP			4.206 MACH * .89867	DEPENDENT VARIABLE CP			-3.885 MACH = .89947	DEPENDENT VARIABLE CP			.148 MACH * .89947	DEPENDENT VARIABLE CP		
TABULATED PRE	AM	(1) = -				(2) *				(3) = (- = (1)				(2) *			
75		= 7.946 BETA	11800Y FLAP UPPER	1.0180 1.0460	33203299 32993377	= 7.956 BETA	11BODY FLAP UPPER	1.0:83 1.0460	32583274 39193437	= 7.955 BETA	13BCOY FLAP UPPER	1.0180 1.0460	34:33511 33003518	* 11.987 BETA	1) BODY FLAP UPPER	1.0180 1.0450	35503507 32983352	= 11.997 BETA	THEONY FLAP UPPER	1.0180 1.0460	340B3375 31293329
DATE 13 FEB		ALPER (4)	SECTION (x/La	1Hd .000.04	ALPHA (4)	SECTION (x/LB	PH1 . 200 40. 000	ALPHA (4)	SECTION (X/LB	PH; . 030 . 40. 300	ALPHA (5)	SECTION C	X/EB	F.H.1 . 000 . 40. 000	ALPHA : 51	SECTION (X/LB	₽35°0+ €05° 1Hd
													0.	RIG	IN.	AL	PAGE	B	}		

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= 3.5879 Ž (XEBF07) = 1059.5 ۵, 599.98 AMES 11-073(0A148) -140A/B/C/R ORB BCDY FLAP UP 0 4.223 MACH = .89947 DEPENDENT VARIABLE CP ALPHA (5) = 11.987 BETA (3) = SECTION I LIBODY FLAP UPPER 1.0180 1.0460 -.3279 -.3439 PH1 . 900 40.000 XVLB

PACE 5435

DATE 13 FEB 75

TABULATED PRESSURE DATA - DAI48 (AMES 11-073-1)

TABULATED PRESSURE DATA - DAINB (AMES 11-073-1)

AMES 11-073(04148) -1404/8/C/R ORB BODY FLAP UP

25 AUG 75

PACE 5-37

(8CBEC8)

PARAMETRIC DATA

... *

2.9:56

£39.12

RUDDER = BOFLAP = R-ELVN =

598.61

DEPENDENT VARIABLE CP

MACH

-3.884

BETA (1) *

-4.017

4.PHA (1) #

SECTION (1)BODY FLAP UPPER

1.0180 1.0460

-.3298 -.3135 -.36:0 -.3711

40.000 600.04

= 1076.5830 IN. XO = .0003 IN. YO = 375.0000 IN. ZO

KWRP YMRP ZMRP

2890.0000 SQ.FT. 471.9000 IN. 938.00880 IN.

REFERENCE DATA

598.61

2,9166

. T/E

139.2

598.61

= 1.3953

DEPENDENT VARIABLE CP MACH

. 155 # ດີ

SECTION (1) BODY FLAP UPPER

BE TA ALPHA (!) = -3.956

1.0180 1.0460

40.000 40.000

XILB

-.3287 -.314**6** -.3559 -.3783

ALDHA (1) = -4.012 BETA SECTION I TIBODY FLAP UPPER

DEPENDENT VARIABLE CP

4.241 MACH

1.0130 1.0460

-.3335 -.3213 -.3595 -.3746

ă

-.037 At 24/ 121 = 40.388

439.00

598.93

SECTION : 1380DY FLAP UPPER

DEPENDENT VARIABLE CP

MACH

-3.899

1.0180 1.0450

-.3319 000. 000. 40.630

-.3257

)

• •

DATE 13 FES 75 TABULATED PRESE	PRESSURE DATA - DAIMB (AMES 11-073-1	-073-1		n	15. 4 16. 19. 19. 19. 19. 19. 19. 19. 19. 19. 19
ANES	AMES 11-073104149) -1484/8/C/R 098 80DY FLAP	OPB BODY FLAP UP		NEBTOB)	
ALBEN 1 41 = 1.853 SETA () = +3.	+3.901 MACH = 1.3952	21.665 ≠ 5	P 439.73	1 7a	9.00
Wiedn evil Acce :) Notices	DEPENDENT VARIABLE CP				
695011 031011 BT W					
09/2:- \$4/2:- 800 19/2:- 34/2:- 800 19/2:- 19/2					
# (2) W138 158.1 サベエンカT	.194 MACH = 1.3952	# 5509.12	E BENT H	Ž	, a.
SON TABOOT TAP UPER	NDENT VARIAB				
carc:: Cara:: el x					
60.55 - 60.65 - 1 - 0.05 - 0.4 - 0.05 - 0.4 - 0.05 - 0.4 - 0.05 - 0.4 - 0.05 - 0.4 - 0.05 - 0.4 - 0.05 - 0.4 - 0.05 - 0.4 - 0.05 - 0.4 - 0.05 - 0.4 - 0.05 - 0.4 - 0.05 - 0.4 - 0.05 - 0					
+) = 7.942 8ETA (3) =	4.207 MACH = 1.3952	g = \$59.12	() () () () () () () () () ()	Ž	* 2.9.5
BERTHON OF THE WORLD SEED OF STREET	DEPENDENT VARIABLE CP				
XX1.8 1.0160 1.0460					
7.Hd 1362 - 13539 - 13626 11.000 - 13751 - 13255					
ALP42 (5) = 11.852 BETA (1) = -3.	-3.888 MACH # 1.3344	g * 599.11	00 77 73 8	i.i.	₽ 2.9:83
SECTION 1 11800Y FLAP UPPER	DEPENDENT VARIABLE CP				
. 10038833883 - 130.C3865330.E					
ALP44 (5, = 11,897 BETA (2) =	.145 MACH = 1.3944	11: 565 ± 0	B C C T T C T T T T T T T T T T T T T T	7/Z	* 2.9:83
SECTION / 1:30DY FLAP UPPER	DEPENDENT VARIABLE CP			,	
X/L3 1.0180 1.0460					

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T.

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PAGE SHAD	686	= 440.18 RN/L * 2.9183				* 439.94 RN/L * 2.9186				* 439.9+ RN/L * 2.9186		- 1/W
•	•	599.11 Р = 44				599.11 Р = 43				599.11 P * 43	• • • • • • • • • • • • • • • • • • •	
•	R ORB BODY FLAP UP	in				9		. :				
PRESSURE DATA - OA 'N	AMES 11-0731021149	4.224 KACH	DEPENDENT V.			-3.863 MACH = 1.3946	DEPENDENT VARIABLE CP			.144 MACH = 1.3948	MACH = DENT VARIAE	MACH = DENT VARIAE
TABULATED PRES	AME	BETA (3) = 4	œ			BETA (1) =3	Œ			BETA (2) =	•	<
		85	SECTION I 1180DY FLAP UPPER	1.0460	-, 3880	ä	SECTION (1)BODY FLAP UPPER	460	o 00	460 689 153	0460 3689 4153 1 Bl	PH1 .00040403689 40.00040264153 LPHA (6) = 15.918 BET SECTION (1)800Y FLAP UPPER

TABULATED PRESSURE DATA - 0A148 (AMES 11-073-1)
DATE 13 FEB 76

DATE 13 FEB 76 TABULATED P	PRESSURE DATA - OA148 (AMES 11-073-1 AMES 11-073(OA148) -140A/B/C/R ORB BO	ES 11-073- B/C/R ORB	18 (AMES 11-073-1) -140A/B/C/R ORB BODY FLAP UP	<u>e</u> ,		(XEBF09) Parametric d	9) (05 DATA	PAGE 5441	
XMRP = YMRP = ZMRP =	1076.6800 IN. XC .0000 IN. YO 375.0000 IN. ZO			RUDDER BDFLAP R-ELVN	N N N	.000 22.550 .000	SPOBRK :: L-ELVN :: MACH ::	85.000 .000 1.250	
ALPHA (1) = -4.026 BETA (1) =	-3.882 MACH = 1.2460	ā	≈ 599.62		Q.	= 551.80	RN/L	= 3.0276	
SECTION (1)BODY FLAP UPPER	DEPENDENT VARIABLE CP								
1.0180 1.0460									
PH] .CCO3E233530 .40.CCO35454C29									
(;) = -4.017 SETA (2) =	.155 MACH = 1.2460	o o	≈ 599.62		Q.	= 551.80	RN/L	3.0275	
SECTION (1)BODY FLAP UPPER	DEPENDENT VARIABLE CP								
1.0180 1.0450									
PHI .56635683468 .43.66537535655	er e e e e e e e e e e e e e e e e e e								
(1) = -4.025 BETA (3) =	4.236 MACH = 1.2450	0	± 599.62		۵	= 551.80	RN/L	3.0276	
SECTION (1)BODY FLAP UPPER	DEPENDENT VARIABLE CP								
1.0180 1.0+63									
PHI .00037043540 40.00038404110									
(2) = .013 BETA (1) =	-3.903 MACH = 1.2463	0	= 599.67	D 12		- 551.57	RN/L	3.0283	••
SECTION (13BODY FLAP UPPER	DEPENDENT VARIABLE CP								
1.0180 1.6+60									
PH1 .G0037433741 46.00039254044									

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DATE 13 FEB 76 TABULATED PRESSURE DATA - OAIWB (AMES 11-073-1)					PAGE 5442
AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP UP	Y FLAP UP		(XE8F09)		
ALPHA (2) = .017 BETA (2) = .152 MACH = 1.2463 0	* 599.67	O.	551.57	RN/L	= 3.0283
SECTION (1)BODY FLAP UPPER DEPENDENT VARIABLE CP					
X/LB 1.0180 1.0460					
FHI .03037393825 40.0033839 ~.4030					
ALPHA (2) = .013 BETA (3) = 4.217 MACH = 1.2463 0	- 599.67	۰	= 551.57	RN/L	3.0283
SECTION (1)BCEY FLAP UPPER DEPENDENT VARIABLE CP					
X/LB 1.0:80 1.0450					
PHI .00039384015 40.00038454050					
ALPHA (3) = 3.507 BETA (1) = -3.907 MACH = 1.2463 Q	= 599.67	۵.	551.57	FN/L	3.0276
SECTION (1) BODY FLAP UPPER DEPENDENT VARIABLE CP					
X/LB 1.0180 1.0+60					
PHI .00039654053 40.00039604051					
ALPHA (3) > 3.907 BETA (2) = .148 MACH = 1.2463 Q	* 599.67	o . '	= 551.57	RN/L	3.0276
SECTION (1)BODY FLAP UPPER DEPENDENT VARIABLE CP					
X/LB 1.0180 1.0460					
PHI .00040284128 .00040254195					
ALPHA (3) = 3.911 BETA (3) = 4.207 MACH = 1.2463 0	1.99.67	Q.	= 551.57	RN/L	3.0276
SECTION (1)BODY FLAP UPPER DEPENDENT VARIABLE CP					
X/LB 1.0180 1.0460					
PH1 .00040114076 .40.00039904219					

DATE 13 FEB 76 TABULATED PR	PRESSURE DATA - DAIWB (AMES 11-073-1	173-1)			PAGE	5443
	AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP UP	ORB BODY FLAP UP		(XEBF09)		
ALPHA (4) = 7.933 BETA (1) =	-3.903 MACH = 1.2463	0 = 599.67	α.	= 551.57	RN/L =	3.0282
SECTION (1) BODY FLAP UPPER	CEPENDENT VARIABLE CP					
X/L9 1.0185 1.0456						
PHI .00042404283 40.0004150502						
ALP4A (4) = 7.889 BETA (2) =	.143 MACH * 1.2463 (0 = 599.67	۵.	= 551.57	RNL	3.0282
SECTION (1)BODY FLAP UPPER	DEPENDENT VARIABLE CP					
X/L9 1.0180 1.0460						
PH1 .00042594280 40.00042894293		• •				
ALPHA (4) = 7.857 BETA (3) =	4.208 MACH = 1.2%63 (0 = 599.67	۵.	= 551.57	RN/L	3.0282
SECTION (1)BODY FLAP UPPER	DEPENDENT VARIABLE CP					
X/L8 1.0180 1.0460						
PH1 .00041914562 40.00043244527	,					
ALPHA (5) = 11.893 BETA (1) =	-3.885 MACH = 1.2447	°4.662 ≈ 0	۵	= 552.74	RN/!	3.0279
SECTION (1)BODY FLAP UPPER	DEPENDENT VARIABLE CP					
X/LB 1.0180 1.0+60	•					
PHI .00044204315 .000.02	•					
ALPHA (5) = 11.849 BETA (2) =	.145 MACH = 1.2447	0 = 599.41	۵.	± 552.74	FAV.L	3.0279
SECTION (1)BODY FLAP UPPER	DEPENDENT VARIABLE CP					
X/LB 1.0180 1.0450		<i>y</i> .				
PHI . 000 4372 4290 40.000 4448				·		

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AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP UP TABULATED PRESSURE DATA - DAIHB (AMES 11-073-1) DATE 13 FEB 76

= 599.41

a MACH = 1.2447 4.220 BETA (3) =

DEPENDENT VARIABLE CP SECTION 1 1780DY FLAP UPPER ALPHA (5) = 11.848

1.0180 1.0460 X/LB

PHI .000 40.000

0944.- 8444.--,4458 -,4455

(XEBF09)

= 3.0279 - **F** 552.74

PAGE 5444

TABULATED PRESSURE DATA - DATH8 (AMES 11-073-1)		INCE DATA	SO.FT. XMRP = 1076.6800 IN. XO RUDDER = .000 SPDBRK = 85.000 IN. YO BOFLAP = .22.500 L-ELVN = .000 IN. ZMRP = .000 MACH = .100	37 BF [A [1) = -3.883 MACH = 1.0577 Q = 598.52 P = 709.53 RN/L = 3.1914	AP UPPER DEPENDENT VARIABLE CP	በ. ዐሣሪን	4136	35 BETA (2) = .155 MACH = 1.0977 Q = 598.52 P × 709.53 RN/L = 3.1914	_AP_UPPER DEPENDENT VARIABLE.CP	1.0460	4150 4373	+2 BETA (3) = 4,235 MACH = 1.0977 0 = 598.52 P = 709.53 RN/L = 3.1914	LAP UPPER	0940.1	-, 4299 -, 4560	20 BETA (1) = -3.899 MACH = 1.0996 0 = 598.85 P = 707.64 RN/L = 3.1885	LAP UPPER DEPENDENT VARIABLE CP	1.0460	
	· }	REFERENCE DATA	* * *	(1) = -4.037 BF [A (1) =	SECTION (1)BODY FLAP UPPER	X/LB 1.0180 1.0460	741 .000 - 4108 - 4136 .000.00 - 4275 - 4444	(S)	SECTION (1)BODY FLAP UPPER	X/LS 1.0180 1.0460	PH! .00041034150 40.00041364373	(3)	SECTION (1)BODY FLAP UPPER	X/LB 1.0180 1.0460	PH1 .00042374299 .00.00043354660		SECTION (1)BODY FLAP UPPER	X/LB 1.0180 1.0460	PHI

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DATE 13 FEB 76 TABU	TABULATED PI	RESSURE 1)ATA - 0	PRESSURE DATA - DAINB (AMES 11-073-1	1-073-1	_					PAGE	SHHS :	ď
		AMES 11-	73(0414	AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP UP	R 0RB BOE	۲.	AP UP		(XE8F10)	10)			
ALFHA (2) * .025 BETA ((2)	. 152	MACH	= 1.0996	a	ii U	≈ 598.85	<u> </u>	= 707.64	+ RN/L		₩.	3, 1885
SECTION (1)BODY FLAP UPPER		13430	DENT VA	DEPENDENT VARIABLE CP									
X/LB 1.0180 1.0460													
PHI .00040224106 .000 0404045						sî							
ALPHA (2) = .023 BETA (3) =	4.214	MACH	≖ 1.099	o	i.	598.85	۵.	- 707.64	+ RN/L		w.	3.1885
SECTION (1) BODY FLAP UPPER		DEPE	DENT VA	DEPENDENT VARIABLE (
X/LB 1.0180 1.0460				·									
PH1 .00041764262 40.00040664271													
ALPHA (3) = 3.934 BETA (-3.903	MACH	= 1.0985	a	1 0	538.62	<u>.</u>	- 708.59	9 FN/L		w.	3.1905
SECTION (1)BODY FLAP UPPER		DEPEN	DENT VA	DEPENDENT VARIABLE CP									
X/LB 1.0180 1.0460													
1H5 .00042734335 90.0004251													
ALPHA (3) = 3.940 BETA (. (S	. 149	MACH	1.0985	O	S	598.62	 ه	- 708.59	9 FAV/L	*	m.	3,1905
SECTION (1180DY FLAP UPPER		DEPEN	DENT VA	DEPENDENT VARIABLE CP									
X/LS 1.0180 1.0460													
PH) .000 9424 000.04 .000.030 4559													
ALPHA (3) = 3.944 BETA (3) *	4.204 MACH	MACH	1.0985	o	in N	598.62	Q.	708.59	9 RN/L	•	 	3.1905
SECTION (1)BODY FLAP UPPER		DEPEN	DENT VA	DEPENDENT VARIABLE CP									
X/LB 1.0180 1 0460						•							
PHI .03043314347 +3.05043984642													

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DATE 13 FEB 76 TABULATED	PRESSURE DATA - DAINB (AMES 11-073-1)	11-073-1					PASE 5447
	AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP UP	'R ORB BODY	FLAP UP		(XE8F10)		
ALPHA (4) = 7.892 BETA (1) =	-3.899 MACH 1.0980	ď	598.61	۵	= 709.30	RN/L	= .3.1901
SECTION (1780DY FLAP UPPER	DEPENDENT VARIABLE CP						
X/LB 1.0180 1.0460			•				
P.11 .00345944644 40.00745534596							
ALPHA (4) = 7.887 BETA (2) =	.144 MACH = 1.0980	ø	598.61	۵.	- 709.30	RN/L	3.1901
SECTION (1) BODY FLAP UPPER	DEPENDENT VARIABLE CP						
X/LB 1.0180 1.0460							
PHI - 00045114564 - 000.04							
ALPHA (4) = 7.888 BETA (3) =	4.206 1 * 1.0980	•	598.51	C.	= 709.30	PN/L	3.1901
SECTION (1:300Y FLAP UPPER	DEPENDENT VARIABLE CP						•
X/LB 1.0:80 1.0460							
1654'- 2194'- 000'C4 1656'- 2194'- 000'C4							
ALPHA (5) # (1.92) BETA (1) #	-3.873 MACH = 1.0991	•	599.16	۵.	- 708.50	RN/L	3.1919
SECTION (1:BODY FLAP UPPER	DEPENDENT VARIABLE CP			,			
X/LB 1.0180 1.0450							
1847 - 1847 - 1875 - 18							
ALPHA (5) = 11.930 BETA (2) =	.146 MACH = 1.0991	o o	599.16	Ω.	708.60	RN/L	3.1919
SECTION (1)BODY FLAP UPPER	DEPENDENT VARIABLE CP						
X/LB 1.0180 1.0460							
IHA .000. .000. .000. .000. .000. .000.							

TABULATED PRESSURE DATA - OAI48 (AMES 11-073-1) DATE 13 FEB 76

AMES 11-073(0A14R) -140A/B/C/R ORB BODY FLAP UP

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3,1919

1/NB

(XE8F10) 708.60

PAGE 5448

* 599.15 0 4.214 MACH = 1.0991 JEPENDENT VARIABLE CP SETA (3) = SECTION (1)BODY FLAP UPPER ALPHA (5) = 11.928

1.0180 1.0460 PH? .000 40.000 X/19

-.4943 -.5643 -.4950 -.5163

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6 n t S	- in		\600 000 000 000 000 000 000 000 000 000	3.5778		-		3.57.8				3.5778				3.5741			
PAGE	DS AUG											Ħ			•	*			
	**	DATA	SPDBRK # L-ELVN # MACH #	PN/1				FN/L				PRVL				RN/L			
	(XEBF11)	PARAMETRIC	.000 22.550 .000	1057.3				1057.3				1057.3				1058.3			
		à						•				•		. • • •		#	•		
			RUDDER BDFL AP R-EL VN	Δ.				۵.				۵				۵			
	FLAP UP			600.11				600.11				600.1i				599.38			
_	3007																		
11-073-	/R ORB E			ø				o				o				٥			
PRESSURE DATA - DAINB (AMES 11-073-1	3) -140A/B/C/R ORB BODY FLAP UP			€+006. ■	DEPENDENT VARIABLE CP			= .90043	VARIABLE CP			. 93043	DEPENDENT VARIABLE CP			£ .89947	DEPENDENT VARIABLE CP		
0 - Y	AMES 11-073(0A148)		222	МАСН	NT VA			MACH	NT VA			MACH	NT VA			MACH	NT VAS		
E DAT	1-073		22.2 22.2		PENDE				DEPENDENT				PENDE				PENDE		
ESSUR	MES 1		1076.6800 .0000 375.0000	-3.873	30			. 148	ם			4.239	Ä			-3.906	8		
	•							Ħ											
TABULATED			XMRP = YMRP = ZMRP	(1)				(S				3				(1)			
7		DATA	444	BETA	PER	_		BETA	UPPER			BETA	PER			BETA	PER.		
		REFERENCE DATA	SO.FT.	15	FLAP UPPER	1.0460	3526	7+	FLAP UP	1.0450	3507	ť:	FLAP UPPER	1.0450	3493		13900Y FLAS UPPER	0+68	3681
		7EF59	00000	-4.067	3DY F.			740.4-				-4.057		. 0810.		.316	SOY FL	1 08	
FEB 76		_	2690,0000 474,5000 936,0690	•	(1)9007	1.0183	3543 3586	# 1	AGCB(1)	1.0180	3512 3643		(1)BCDY	1.03	3502 3829	*		1.0180	3624 3609
13			H . H H	. A	SECTION		PH1 000.04		NC1133S		PH1 000 40,000	-	SECTION (80 00000000000000000000000000000000000	(S)	SECTION (PH1 .200 40.530
DATE			SREF LREF BREF SCALE	ALPHA	SEC	X/LB	<u> </u>	ALPHA	355	X:LB	T G	ALPHA (250	X/LB	H G	ALPHA	SEC	X/18	£ 5

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DATE 13 FTB 76 TABULATED P	TABULATED PRESSURE DATA - DAINB (AMES 11-073-1)		-	ā.	PAGE 5450
	AMES 11-073(0A148) -1464/8/C/R ORB BODY FLAP UP		. (XEBF11)		 .
ALPHA : 21 = .014 BETA (2) =	.139 MACH = .89947 0 = 599 38	۵.	÷ 1058.3	1/1/2	3.5741
SECTION (1) BODY FLAP UPPER	DEPENDENT VARIABLE CP				: : =
X/LB 1.0180 1.0450					- -
PHI .000. .000. .35453744					- E
ALPHA (2) = . 024 BETA (3) =	4.220 MACH = .89947 0 = 599.38	<u> </u>	1058.3	7/8	* 3.574!
SECTION (1)BODY FLAP UPPER	DEPENDENT VARIABLE CP	`	.·.		
X/LB 1.0180 1.0460		- .	•		
1Hd 200 - 3485 - 000 1000.04					
ALPHA (3) = 3.935 BETA (1) =	-3.911 MACH = .89917 Q = 599.47	۵.	1059.2	PBN/L	3.5758
SECTION 1 13BODY FLAP JPPER	DEPENDENT VARIABLE CP				
X/L3 1.0180 1.0460					
PH1 .00035323573 +0.00035113547			. •		
ALPHA (3) = 3.937 BETA (2) =	.151 HACH = .89917 0 = 599.47	<u>.</u>	1059.2	7	3.5758
SECTION 1 11BOOY FLAP UPPER	DEPENDENT VARIABLE CP				
X/L8 1.0189 1.0450					
PHI .00034513420 +0.00034843745				_	
ALPHA (3) = 3.940 BETA (3) =	4.207 MACH = .89917 0 = 599.47	<u>.</u>	1059.2	7/1	3.5758
SECTION (1)BODY FLAP UPPER	DEPENDENT VARIABLE CP				
X7LB 1.0180 1.0460					
14d					
3537					

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DATE 13 FEB 76 TABULATED	PPESSURE DATA - DAIMB (AMES 11-073-1)	11-073-1				PAGE 5451
	AMES 11-073:041481 -1404/8/C/R ORB BODY FLAP UP	/R ORB BODY FLAP UP		(XEBF11)		
ALOHA (1) * 7.890 BETA (1) #	-3.900 MACH = .99940	0 = 599.79	۵.	Ξ	Z.€	3.5790
SECTION 1 11800 FLAP UPPER	DEPENDENT VARIABLE CP					
1.0180 1.0460						
PHI . 000 - 3493 - 3443 90.000 - 3517 - 3732						
ALPHA (+) + 7,894 BETA (2) +	.145 MACH = .89940	0 = 599.79	4	1059.2	., Z	= 3,5790
SECTION 1 1180DY FLAP UPPER	DEPENDENT VARIABLE CP					
X.LB 1.0130 1.0453						
8822"- 6922"+ 000"Ch 8822"- 6922"+ 005"						
7.6	4.207 MACH * .89340	0 = 599.79	c.	3.02 0 .2	Ž.	3,5795
SECTION (I) BODY FLAP UPPER	DEPENDENT VARIABLE CP				•	
X/LB 1.0190 1.0450					•	
9HI .00036I236E5 9C.COO353336S5						
4LPHA (5) = 11.932 BETA (1) =	-3.884 MACH = .89987	599.3v	• a.	1059.7	Ž	# 3.5747
SECTION (1) BOON FLAP UPPER	DEPENDENT VARIABLE CP)
X728 1.0180 1.0450						
PH1 .000 - 3578 - 3572 .000 - 3543					,	
ALPHA (5) * 11.939 BETA (2) =	.149 MACH = .89887	D = 599.34	٠ ۵.	1059.7	Z/K	# 3.57±7
SECTION (1)BODY FLAP UPPER	DEPENDENT VARIABLE CP					
X/LB 1.0180 1.0460						
PH) .0003509360P 90.000342!363!						

TABULATED PRESSURE DATA - DATAB (AMES 11-073-1) DATE 13 FEB 75

■ 599.3

RN/L = 3.5747

CXEBF11) 1059.7

PAGE 3452

AHES 11-07310A148) -140A/B/C/R DRB LOCY FLAP UP

4.228 MACH * .89887 DEPENDENT VARIABLE CP BETA (3) = SECTION (1)BODY FLAP UPPER ALPHA (5) = 11.928

-.3753 1.0:30 1.0469 -.3462 -.3661 PHI . 000 40.000 BTXX

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OATE 13 FEB 76	TABULATED	PRESSURE DATA - DAI 48 (AMES 11-073-1	48 (AMES 11-073-1					PAGE 5453
ore makes		AMES 11-073(0A148)	-1404/B/C/R-ORB BODY FLAP UP	CON FLAP UP		(XEBF12)	~	05 AUG 75 1
	REFERENCE DATA				, *	PARAMETRIC	DATA	
SREF = 2690.0000 LREF = 474.8000 BREF = 936.0680 SCALE = 0300	SO.FT. XXRP # IN. YRRP # ZMRP #	1076.6800 IN. XO .0000 IN. YO 375.0000 IN. ZO	er gue		RUDDER = BOFLAP = R-ELVN =	.000 22.500 .000	SPOBRK = L-ELVN = MACH *	85.000 .900 .500 .500
ALPHA (1) * +4	++.057 BETA (1) =	-7.889 MACH =	. 59636 0	593.96	.	- 2385.7	RN/L	* 4.8150
SECTION (1) BOD	(1) BODY "LAP UPPER	DEPENDENT VARIABLE	ABLE CP					
X/LB 1.0180	1.0460		•	٠.				
PH1 .0003005 +0.0003358	5 2813 3 3567		W	,	. 4. S			,
ALPHA (1) =	+.036 BETA (2) =	-3.874 MACH =	.59636	= 593.96		= 2385.7	FN/L	* 4.8150
SECTION (1)BODY FLAP UPPER	' FLAP UPPER	DEPENDENT VARIABLE CP	BLE CP		•			
X/LB 1.0180	1.0460							
PHI .0003038 40.0003314	2933 3536				. jetika e			
ALPHA (1) = -4	-4.017 BETA (3) =	.163 MACH =	.59636	= 593.96	•	2385.7	RN/L	- 4.8160
SECTION (1)BODY FLAP UPPER	FLAP UPPER	DEPENDENT VARIABLE	BLE CP					
X/L8 1.0180	1.0460		-					
PH1 .0003046 +0.0003294	2868 3714							
ALPHA (1) = -4	-4.026 BETA (4) =	4.234 MACH =	. 59536	= 593.96	a .	2385.7	7/8	- 4.8150
SECTION (1)BODY FLAP UPPER	FLAP UPPER	DEPENDENT VARIABLE	BLE C		4			
X/18 1.0180	1.0460							
PHI .0002905 +0.0003412	<i>27</i> 85 3726		•					

DAIE 13 FEB 76 TABULATED PE	PRESSURE DATA - DAINS (AMES 11-073-1)	1-073-1		•		PAGE 5454
	AMES 11-073:0A148) -140A/B/C/R 0RB BODY FLAP UP	R ORB BODY FLAP UP		(XEBF 12)		
ALPHA (1) = -4.040 BETA (5) =	8.307 МАСН = .59636	4 593.96	Q	= 2385.7	PN/L	± 4.8150
SECTION (!) BODY FLAP UPPER	DEPENDENT VARIABLE CP					
X/LB 1.0180 1.0460				-		
PHI .00030162973 +0.00032563+99		• • • • • • • • • • • • • • • • • • •		e e		
ALPHA (2) = .047 BETA (1) =	-7.924 MACH = .59654	0 - 594.31	Q.	= 2385.7	ž	4.8134
SECTION (1) BODY FLAP UPPER	DEPENDENT VARIABLE CP	•				
X/LB 1.0180 1.0450						
PH1 .00030842869 .40.00032723642						
ALPHA (2) = .057 BETA (2) =	-3.897 MACH = .59654	0 - 594.31	۵	= 2385.7	RN/L	· 4.8134
SECTION (1)BODY FLAP UPPER	DEPENDENT VARIABLE CP	٠				
X/LB 1.0180 1.0460						
PHI .000 - 3098 - 2979 40.030 - 3260 - 3535						
ALPHA (2) = .058 BETA (3) =	.160 MACH * .59654	0 = 594.31	۵	= 2385.7	PN/L	= 4.8134
SECTION 1 1180DY FLAP UPPER	DEPENDENT VARIABLE CP					
X/LB 1.0180 1.0469						•
PH1 .00029782902 40.00031883538						
ALPHA (2) = .052 BETA (4) =	4.215 MACH = .59654	0 = 594.31	a	= 2385.7	PN/L	* 4.813t
SECTION (1)BODY FLAP UPPER	DEPENDENT VARIABLE CP					
X/LB 1.0180 1.0460						
PHI .00029642804 49.00033783754						

TABULATED PRESSURE DATA - 0A148 (AMES 11-073-1)
-140A/
271 MACH = .59654 DEPENDENT VARIABLE CP
.59690
DEPENDENT VARIABLE CP
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DEPENDENT VARIABLE CP

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DATE 13 FEB 76 TARII ATEN					
	-	(I-5/0-1		PAGE	£ 5456
	AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP UP	R ORB BOOY FLAP UP	(XE8F12)		
ALFHA (3) = 3.960 BETA (5)	* 8.252 MACH = .59690	0 = 595.02 P	- 2385.7	1/88	4 A206
SECTION (1)BODY FLAP UPPER	DEPENDENT VARIABLE CP				
X/LB 1.0190 1.0460					:
PH1 .00031393234 40.00030973451			***		
ALPHA (4) = 7.904 BETA (1)	= -7.922 MACH = .59690	0 = 595.02	* 2385.7	· N	10000
SECTION (1) BODY FLAP UPPER	DEPENDENT VARIABLE CP				
(/L9 1.0180 1.0466					
PHI .00030822930 +0.00033083517					
LPHA (4) = 7.913 BETA (2)	* -3.891 MACH = .59690	0 282° = 0	- 2305.7	\ \frac{1}{2}	6000
SECTION (1)3CDY FLAP UPPER	DEPENDENT VARIABLE CP				30.50.1
7LB 1.0180 1.0460					
PH1 .00030342867 +0.00031153488					
LPHA (4) = 7.912 BETA (3) =	* .160 MACH * .59690	. d 28,585 # 0	2006.1	526	0000
SECTION (1) BODY FLAP UPPER	AR I AB				1. ocur
7LB 1.0180 1.0452					
PHI .00030333009 +0.00030833378					·
PHA (4) = 7.910 BETA (4) =	4.204 MACH = .59690	0 * 595.02 P	- 2395.7	i Na	000
SECTION (1) BODY FLAP UPPER	GEPENDENT VARIABLE CP				3000 1000 1000 1000 1000 1000 1000 1000
1.9 1.0180 1.0460					
5H1 50631063116 40.36031373456	·				

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PAGE 5457		4.8202			٠.	4.8162				4.8162				4.8162	•			4.8162	٠		
PAGE		*																u			
	Ω	RN/L			•	RN/L				RN/				HAVE				RN/L			
	(XE8F12)	2385.7		,		2385.7				2385.7				2385.7				2385.7			
										•								n			
		۵				٥				۵				Q.				۵.			
	AP UP	595.02				594.43				594.43				594.43				594.43			
_	97 FL	in ir				#				بن بن				* 50				i i			
73-1	RB B0																				
11-0	C/R G	ø				O				O				0			ė i	0			•
TABULATED PRESSURE DATA - OA148 (AMES 11-073-1	AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP UP	8.256 МАСН = .59690	DEPENDENT VARIABLE CP			-7.879 MACH = .59660	DEPENDENT VARIABLE CP		44.44	-3.871 MACH = [9660	DEPENDENT VARIABLE OF			.156 MACH = .59660	DEPENDENT VARIABLE CP			4.216 MACH * .59660	DEPENDENT VARIABLE CP	· ·	
D PRES	AME	tt				r- "				# 5-				Ħ				J.			
KLATE		(2)				1				<u>0</u>				(2)				; ;			
TAB		BETA	SECTION (1)BODY FLAP UPPER	1.0460	3330	BETA	SECTION (1)BODY FLAP UPPER	1.0460	3028	BETA	SECTION (1)BODY FLAP UPPER	1+50	2827 3448	BETA	SECTION (1)BODY FLAP UPPER	1.0460	2811	BETA	SECTION (1) BODY FLAP UPPER	1.0450	3119
		7.909	r FLAï			11.950	r FLAF			11.968	FLAF	1.0450		11.970	FLAP			11.958	FLAP		
76		#	, BOD	1.0180	3318	11	.) BOD	1.0180	2961	= =	(0081)	1.0183	2943		BODY	1.0180	2954 2831		BODY	1.0180	3055
3 FEB		3	3				N.			S	2	-		5) =		_		5) *	- - -		
DATE 13 FEB 76		A: PHA	SECTR	X/LB	PH1 .000 40.000	ALPHA (5)	SECT !(x/LB	PH1 . 500 . 000	ALPHA (SECTIC	X/LB	PH1 .000 40.000	ALPHA (SECTIC	X/LB	PH1 .000 .40.000	ALPHA (5)	SECTIC	X/LB	PH1 .600 40.600

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TABULATED PRESSURE DATA - OAI48 (AMES 11-073-1) DATE 13 FEB 76

AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP UP

PAGE 5458

RAZIL

(XEBF12) 2385.7

* 594.43 8.279 MACH ₹ .59660 DEPENDENT VARIABLE CP BETA (5) = SECTION (1.BODY FLAP UPPER ALPHA (5) - 11.959

1.0180 1.0460 -.3038 -.3209 PH1 .000 40.000 X/LB

PAGE 5459	(XEBF13) (05 AUG 75)	PARAMETRIC DATA	R = .000 SPDBRK = 35.000 P = .000 L-ELVN = .000 N = .000 MACH = 1.400	= 440.65 RN/L = 2.9118				= 440.65 RN/L = 2.9118				- 440.65 RN/L - 2.9118				= 440.4; FR/L = 2.9115			
11-073-1)	-140A/B/C/R ORB BODY FLAP UP		RUDDER BOFLAP R-ELVN	Q = 599.93 P				Q = 539.93 P	•			0 = 599.93 P				0 = 599.93 P			
TABULATED PRESSURE DATA - 0A148 (AMES 11-073-)	AMES 11-073(0A148) -140A/B/C/		XMRP = 1076.6600 IN. XO YMRP = .0000 IN. YO ZMRP = 375.0000 IN. ZO	(1) * -3.886 MACH * 1.3946	DEPENDENT VARIABLE CP			(2) = .154 MACH = 1.3945	DEPENDENT VARIABLE CP	` '		(3) = 4.249 MACH = 1.3946	DEPENDENT VARIABLE CP			()) = -3.905 MACH = 1.3950	DEPENDENT VARIABLE CP		
DATE 13 FEB 76 TA		REFERENCE DATA	SPEF = 2630.0060 50.FT. XP LREF = 474.8000 IN. YP BREF = 936.0680 IN. ZP SCALE = 0300	ALPHA (1) = -4.106 BETA	SECTION (1)BODY FLAP UPPER	X/LB 1.0190 1.0460	PHI 3126 3164 	ALPHA (1) = -4.030 BETA	SECTION (1) BODY FLAP UPPER	X LB 1.0180 1.0450	PH1 .00031363181 40.00033923507	ALPHA (1) = -4.039 BETA	SECTION (1)BODY FLAP UPPER	X/LB 1.0180 1.0460	PH1 .000 - 3168 - 3218 40.000 - 3381 - 3485	ALPHA (2) =033 BETA	SECTION (1)BODY FLAP UPPER	X/LB 1.0180 1.0460	PH1 .00032993352 40.00032263404

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	AMES 11-07310A148) -140A/B/C/R ORB BODY FLAP UP	ORB BODY FI	AP UP		(XEBF13)	1	٠
ALPHA : 2) =028 BETA (2) =	.144 MACH = 1.3950	. 0	599.93	۵.	# 440.41	RN/L	■ 2.9115
SECTION (1) BODY FLAP UPPER	DEPENDENT VARIABLE GP						
X/LB 1.0180 1.0450							
PH1 .00032013296 40.00032983388	_						•
ALPHA (2) =033 BETA (3) =	4.229 MACH = 1.3950	87 #	599.93	٩	14.044	1	- 2.9115
SECTION (1) BODY FLAP UPPER	DEPENDENT VARIABLE CP						
X/LB 1.0180 1.0460							
PH1 .00032153309 40.30033783457							·
ALPHA (3) = 3.851 BETA (1) =	-3.904 MACH = 1.3941	9 "	500.12	a	= 441.12	RN/L	- 2.9157
SECTION 1 1380DY FLAP UPPER	DEPENDENT VARIABLE CP						
X/LB 1.0180 1.0460							
PH1 .03032843365 40.06032103350							
ALPHA (3) = 3.949 BETA (2) =	.141 MACH = 1.3941	9	600.12	۵	= 441.12	RN/L	= 2.9157
SECTION (1)BODY FLAP UPPER	DEPENDENT VARIABLE CP						
X/LB 1.0180 1.0450							
PHI .90031623297 +0.03031993229							
ALPHA (3) = 3.862 BETA (3) =	4.219 MACH * 1.3941	9	500.12	۵	= 441.12	RN/L	= 2.9157
SECTION 1 13BODY FLAP UPPER	DEPENDENT VARIABLE CP						
X/L9 1.0180 1.0460							
146 - 000 - 3205 - 3273 - 3316 - 3364							

PAGE 5460

TABULATED PRESSURE DATA - DAIWB (AMES 11-073-1)

DATE 13 FEB 76

DATE 13 FEB 75 TABUL	TABULATED F	PRESSURE D	ATA - (PRESSURE DATA - 0A148 (AMES 11-073-1)	ES 11-	073-1	_					O.	PAGE 5461	1 61
		AMES 11-0	73(0A1	AMES 11-07310A148) -140A/B/C/R ORB BODY FLAP UP	B/C/R	ORB BOI	¥ F	a G			(XE8F13)			
ALPHA (4) = 7.881 BETA (= 1	-3.904	MACH	= 1.3932		O	#	600.00	Q.	,	441.59	1	ru #	2.9150
SECTION (1) BODY FLAP UPPER		NEPEN	DENT V	DEPENDENT VARIABLE CP										
X/LB 1.0180 1.0460														
PH1 .00033713+19 +0.00033003+05														
ALPHA (4) = 7.933 BETA ((2	. 128	MACH	1.393 2		0	6 0	600.00	۵	•	441.59	PN/L	٠ •	2.9150
SECTION (1)BODY FLAP UPPER		DEPEN	ENT V	DEPENDENT VARIABLE CP										
X/L9 1.0180 1.0460														
PH1 .00032563339 40.00032923375														
ALPHA (4) = 7.934 BETA (33	4.214	MACH	1.3932		a	# Ø	600.00	o L	1:	441.59	PN/L		2.9:50
SECTION (1)BCDY FLAP UPPER		DEPEN	ENT VA	DEPENDENT VARIABLE CP										
X/LB 1.0180 1.0460														
PHI .00032913379 .000.04														
ALPHA (5) = 11.884 BETA (* =	-3.887	MACH	= 1.3946		ø	, S	599.92	Q.		440.65	1 / 2	u Cu	2.9185
SECTION (1)BODY FLAP UPPER		DEPEN	ENT VA	DEPENDENT VARIABLE CP										
X/LB 1.0180 1.0450														
PHI .02034683490 .030033833321														
ALPHA (5) = 11.891 BETA (6		.152	MACH	1.39 46		0	* 56	599.92	۵.		440.65	PN/L	رن *	2.9185
SECTION (1)BODY FLAP UPPER		DEPEND	ENT VA	DEPENDENT VARIABLE CP										
X/LB 1.0180 1.0460														
PHI .01033853445 43.00034753599														

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DATE 13 FEB 76 TABULATED PRESSURE DATA - DAIMB (AMES 11-073-1)	- DATHB (AMES 1	1-073-1					PAGE	PAISE 5462
AMES 11-073(0)	AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP UP	R ORB BOO	Y FLAP UP		iX.	(XE8F13)	-	
ALPHA (5) : 1, 887 BETA (3) = 4,229 MACH	н = 1.3946	ø	= 599.92	۵	= 440.65	1/NE 59	• د	2.9:85
SECTION (1:800Y FLAP UPPER DEPENDENT	DEPENDENT VARIABLE CP							
X/LB 1.0190 1.0460								
PHI .00033873421 40.00035923575								
ALPHA (6) = 15.888 BETA (1) = -3.863 MACH	H = 1.3935	o	* 6C0.21	۵	₽ 441.59	59 FRV/L	*	2.9215
SECTION (1) BODY FLAP UPPER DEPENDENT	DEPENDENT VARIABLE CP							
X/LB 1.0180 1.0460								
PHI .C0036743707 40.00033563456	1.							
ALPHA (6) * 15.865 BETA (2) * 152 MACH	.152 MACH = 1.3935	a	- 600.21	٩	· 441.59	59 RN/L		2.921B
SECTION (1) 6007 FLAP UPPER DEPENDENT	DEPENDENT VARIABLE CP							
X/LB 1.0130 1.0450								
PH; .00034883436 +0.00037923930								
ALPHA (6) = 15.903 BETA (3) = 4.263 MACH	1 - 1.3935	0	= 600.21	۵.	8.1¥	55 AN.L	*	2.9216
SECTION (1) BODY FLAP UPPER DEPENDENT	DEPENDENT VARIABLE CP							
X/LB 1.3180 1.0460								
PHI .00037053740 40.00038573880								

DATE 13 FEB	8 7 6	TABULATI	ED PRE	SSURE [ATA -	0A148	TABULATED PRESSURE DATA - OAIH8 (AMES 11-073-1	11-073-	-						PAGE	PAGE 5463	
			AM	ES 11-(MES 11-073(0A148)	18) -	-140A/B/C/R ORB BODY FLAP UP	/R 0RB	BODY	LAP UP			(XEBF 14)	_	DS AUG	k	
	REFERENCE DATA											2	PARANE TRIC	DATA			
SPEF = 2 LPEF = 3 BPEF = 3 SCALE = 3	2F90.0009 SQ.FT. 474.8000 IN. 935.0090 IN.	XMRP YMRP H GRAD	375 375	1076.6800 10000. 375.0000	IN. X0 IN. Y0 IN. Z0						RUDDER BOFLAP RELVN		000:	SPOBRK * L-ELVN *		35.000 .000 1.250	•
ALPHA (1)	= -4.010 BETA	A C 13	1	-3.884	MACH		1.2452	G		599.70	۵	n	552.51	1/NE		3.0155	
SECTION 1	SECTION (1:800Y FLAP UPPER			DEPEN	DEPENDENT VARIABLE	ARIABL	E CP										
X/LB	1.0180 1.0460																
000 0 n	34243517 37263854																
ALPHA : 11	= -3.944 BETA	(5)		. 1¢B	MACH	"	1.2452	o		593.70	۵	*	552.53	P8/1	•	3.0159	
SECTION (13BODY FLAP UPPER			DEPEN	DEPENDENT VARIABLE CP	AR I ABL	E CP										
87/X	1.0180 1.0460																
PH1 .000 #0.000	33923469 36313758																
ALPHA (1)	AT38 800.4- €	(£)	<i>#</i>	4.237	MACH	#	1.2452	0	H	599.70	۵.	*	552.51	J/NS:	*	3.0159	
SECTION 1	13800Y FLAP UPPER			DEPEN	DEPENDENT VARIABLE CP	IP I ABL	E CP										
x/ra	1.0:90 1.0450																
PH1 000. 40.000	35673521 37003658																
ALPHA (2)	≈ .205 BETA	2	# E	3.866	MACH		1.2472	a		601.31	a	*	55.29	1/28		3.6212	
SECTION ((1) BODY FLAP UPPER			DEPEN	DEPENDENT VARIABLE CP	RIABE	E CP										
X/LB	1.0180 1.0460																
PHI . 009 . 40. 030	35473625 35093713																

18 18 18 18 18 18 18 18 18 18 18 18 18 1	(XE8714)	6160 F # 1/88 66.555 # d		-			P = 552.29 RW/L = 3.0212)	•		250 F # 1/85 SB. 1855 # 9			,.	2002 F				7 - 1/48 - 29.155 - 4			
18 (AMES 11-073-1)	AMES, 11-073(0A148) -140A/B/C/R ORB BODY FLAP UP	= 1.2472 Q = 601.31		•			1.2472 0 = 601.31				= 1.2473 0 = 600.93				1.2473 0 = 600.93				1.2473 G = 600.93			
TABULATED PRESSURE DATA - OAI48 (AMES 11-073-1)	AMES 11-073(0A148)	(2) * . 185 MACH	DEPENDENT VARIABLE CP				(3) = 4.264 MACH =	DEPENDENT VARIABLE CP			(1) = -3.872 MACH	DEPENDENT VARIABLE CP			1 2) = .184 MACH =	DEPENDENT VARIABLE CP			(3) = 4.256 MACH =	DEPENDENT VARIABLE CP		
DATE 13 FEB 76		ALPHA (2) = .220 BETA	SECTION (1780DY FLAP UPPER	X/LB 1 0180 1.0460	PH1 . 2000 3468 3555	3520	ALPHA (2) = .215 BETA	SECTION (1) BODY FLAP UPPER	YA.8 1.0180 1.0460	PH; .000353; +.3543 40.0003759 +.3868	ALPHA (3) = 3.903 BETA	SECTION 1 11800Y FLAP UPPER	X/LB 1.0180 1.0460	P4; - 000 - 3539 - 3817 9.000 - 3548	ALPHA (3) = 3.903 BETA	SECTION I DIBOOM FLAP UPPER	X/LB 1.0130 1.0450	PH; .00035223531 40.00035273684	ALPHA (3) = 3.907 BETA	SECTION 13800Y FLAP UPPER	X/LB 1.0180 1.0460	PH1 .000 + 256103738 +0.000 +.36593835

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DATE 13 FEG 76 TABULATED PR	PRESSURE DATA - 0A148 (AMES 1:-073-1)	1-073-1				_	PAGE 5465	
	AMES 11-073(0A143) -140A/B/C/R ORB BODY FLAP UP	я о кв воо	Y FLAP UP		(XE8F14)			
ALPHA (4) = 7.853 BETA (1) =	-3.87° MACH = 1.2465	Ö	= 600.83	۵.	= 552.06-	Ž	3.0236	10
SECTION * 1 BOD) FLAP UPPER	CEPENDENT VARIABLE CP							
X7L3 1.018G 1.0460								
1997 - 3753 - 1980 1980 - 3753 - 1980 1980 - 1984								
ALPHA (4) = 7.959 BETA (2) =	.18i MACH = 1.2469	0	= 600.88	۵	552.06	NA L	# 3.5236	"
SECTION (1:300Y FLAP UPPER	DEPENDENT VARIABLE CP							
N/18 1.03460 1.0460								
04/2005 000.04 04/200 3658 000.04								
ALPHA (4) = 7.960 BETA (3) =	4.251 MACH = 1.2469	#	600.88	α .	= 552.05	Ž	■ 3. 2235	
SECTION (11800Y FLAP UPPER	DEPENDENT VARIABLE CP							
84.0.1 CB10.1 B1/X								
745 - 355.4 - 3756 146 - 385.4 - 3756 146 - 385.4 - 3856.24								
ALP4A (5) = 11.929 BETA (1) =	-3.853 MACH = 1.2466	r C7	560.83	۵.	* 552.23	1 /8.	# 3, th	
SECTION 1 13800Y FLAP UPPER	DEPENDENT VARIABLE CP						4	
x/∟a 1.3180 1.3463								
P4) .000 - 3855 - 000. 40.001 - 3786 - 3644								
ALPMA (5) # 11.937 BETA (2) #	.177 MACH = 1.2456	•	600.83	Q .	* 552.29	<u>:</u>	B 35.324B	
SECTION (1) BODY FLAP UPPER	DEFENDENT VARIABLE CP							
X/28 1.0180 1.0458								
149 149 1375 1893. 1997 1884 1893.								
• •								

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TABULATED PRESSURE DATA - OAINB (AMES 11-073-1) DATE 13 FEB TE

AMES 11-073(0A148) -140A/B/U/R ORB BODY FLAP UP

3.02番

-1 NG

= 600.83

(AEBF14) 552.23

PASE 5456

ø 4.267 MACH = 1.2458 ALPHA (5) = 11.932 SETA (3) =

DEPENDENT VARIABLE CP

SECTION (1) BCDY FLAP UPPER 1.0190 1.0458

PH1 .030 40.035 X/LB

-.3910 -.3903 -.3879 -.3927

OATE 13 FEB 76 TAE	TABULATED PPESSURE DATA - 0A148 (AMES 11-073-1) AMES 11-073(0A148) -140A/B/C/R 088 BODY FLAP UP	1-073-1) 3 ORB BODY FLAP UF		(XFRF 15)	_	PAGE 5467
REFERENCE DATA				(AESTIE) PARAMETRIC DATA	-	
SREF = 2690.0000 SQ.FT. XMRP LREF = 474.8000 IN. YMRP BREF = 93C 9680 IN. ZMRP SCALE = .0300	P = 1076.6500 IN. XO P = .0000 IN. YO P = 375.0000 IN. ZO		RUDDER BOFLAP R R-ELVN	000.	SPDBRK = L-ELVN = MACH	34.000
ALPHA (1) = -4.072 BETA	(1) = -3.851 MACH = 1.0992	0 = 599.97	<u>.</u>	709.32	RN/L	3.1890
SECTION (1)BOOY FLAP UPPER	DEPENDENT VARIABLE CP					
X/LB :.0180 1.6460						
PH! .000383! .3947 .40.00032954063						
ALPHA (1) = -4.079 BETA	(2) = 1.189 MACH = 1.0992	0 = 599.97	a .	709.32	RN/L	3.1890
SECTION (1)80DY FLAP UPPER	DEPENDENT VARIABLE CP					
X/LB 1.6180 1.0460						
PHI .03037393810 40.00037323991						
ALPHA (1) = -4.675 BETA	(3) = 4.283 MACH = 1.0992	0 = 599.97	a.	709.32	RN/L	3.1890
SECTION (1)BCDY FLAP UPPER	DEPENDENT VARIABLE CP					
X/LB 1.0180 1.0450						
PHI .00040454093 40.00039454035						
ALPHA (2' =011 BETA	(1) = -3.863 MACH = 1.099+	0 = 559.94	· ·	709.08	RN/L	* 3.1892
SECTION (1) BODY FLAP UPPER	DEPENDENT VARIABLE CP					
X/LB 1.0180 1.0450						
PH1 .000 - 3636 - 3773 +0.030 - 3780 - 3885						

TABULATED A (2) =	PRESSURE DATA - DA148 (AMES 11-073-1) AMES 11-073(DA148) -140A/B/C/R ORB BODY FLAP UP	1-073-1) R ORB BODY FLAP UP Q = 599.94	(XEBF15)	15) RN/L	PAGE 5478
SECTION (1)BODY FLAP UPPER X/LB 1.018G 1.0460 PHI .37353806 +0.00037313849	DEPENDENT VARIABLE CP		,		
ALPHA (2) =007 BETA (3) = SECTION (1)BODY FLAP UPPER X/LB (.0180 1.046)	4.250 MACH = 1.0994 DEPENDENT VARIABLE CP	299.94	P 709.08	FB/L	3.1892
PH1 .C0039+94024 +0.00038264002 ALPHA (3) = 3.931	-3.870 MACH = 1.0960 DEPENDENT VARIABLE CP	. 538.5±	P = 711.89	RN/L =	3.1895
PH1 .00639224046 +0.00036804029 ALPH1.31 = 3.932 BETA (2) = SECTION (1)800Y FLAP UPPER X/LB 1.0180 1.0460	.189 MACH * 1.0960 DEPENDENT VARIABLE CP	in 986€	P 711.39	RN/L .	3.1895
PH1 .00038523943 +0.00037953962 ALPHA (3) = 3.935 BETA (3) = SECTION (1)B0DY FLAP UPPER X/LB 1.0180 1.0460 PH1 .05040304091	4.249 MACH = 1.0960 DEPENDENT VARIABLE CP	g \$28.5€ •	* 711.89	RN/L .	3.1895

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	TABULATED PRESSURE DATA - DAIHB (AMES 11-073-1)
	DATE 13 FEB 76

PAGE 5459 R F (XE8F15) 709.30 AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP UP 599.29 O DEPENDER! VARIABLE CP MACH -3.865 BETA (1) = SECTION (1)BODY 71.75 UPPER 7.534 ALPHA (4) =

3.1885

599.29 .179 MACH * 1.0986 ລ ALPHA (4) = 7.965 BETA - . 4250 - . 4245 1.0180 1.0450 -.4224 -.4069 .000 40.000 A/LB

Z Z RN/L 709.30 709.30 599.59 4.242 MACH = 1.0985 DEPENDENT VARIABLE CP DEPENDENT VARIABLE CP 3 BETA SECTION (1)BODY FLAP UPPER SECTION (1)BODY FLAP UPPER -.3951 -.3954 1.0180 1.0460 ALPHA (4) = 7.956 -.3885 -.3802 .000 .000 K/L3

PX-L 709.53 598.93 1.0981 DEPENDENT VARIABLE CP -3.850 MACH BETA SECTION (1)900Y FLAP UPPER 1.0130 1.0460 -.4122 -.4193 -.4179 -.4338 1.0180 1.0450 -.4157 -.4159 -.4250 -.4243 ALPHA (5) = 11.925 000. 40.000 . 000 40.000 X/1:9 e7/x ij.

709.53 .177 MACH = 1.0981 DEPENDENT VARIABLE CP ALPHA (5) = 11.933 BETA SECTION (1)BODY FLAP UPPER 1.0180 1.0450

-.4096 40.000

PAGE 5470

TABULATED PRESSURE DATA - DAIY8 (AMES 11-073-1)

AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP UP

4.259 MACH = 1.0991 BE!A (3) =

ALPHA (5) = 11.928

DATE 13 FEB 76

DEPENDENT VARIABLE CP SECTION (1) BODY FLAP UPPER

-.4303

-.4182 -.4251

PHI .000 40.000

1.0180 1.0460

X/LB

(XEBF 15)

709.53

J/NZ

= 3.1856

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(XE8F16) AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP UP

(05 AUG 75)

PAGE 5471

3.5811 RN/L PARAMETRIC DATA 1056.2 866 RUDDER : BOFLAP : R-ELVN : 601.77 .93217 DEPENDENT VARIABLE CP * 1076.6800 IN. XO * .0000 IN. YO * 375.0000 IN. ZO MACH -3.855 BETA SECTION (1)BODY FLAP UPPER REFERENCE DATA 2690.0000 SQ.FT. 474.8000 IN. 536.0590 IN. 0300 1.0180 1.0460 -4.023 ALPHA (1) = SREF = BREF = BREF = SCALE = BREF = B

601.77 - .90217 DEPENDENT VARIABLE CP .188 MACH ALPHA (1) = -3.925 BETA SECTION (1) BODY FLAP UPPER -.2503 -.2762 -.2478 -.2693 1.0180 1.0460 42.000 X/:B

3.5811

1056.2

3.5811

RNI

= 1056.2

-.2452 -.2505 -.2599 -.2918 000.04 40.000

601.77 DEPENDENT VARIABLE CP MACH ALPHA (1) = -3.935 BETA SECTION I 11BODY FLAP UPPER 1.0180 1.0460 PH1 .000 +0.000

1059.1 599.69 DEPENDENT VARIABLE CP -3.871 MACH C17 BETA SECTION (11800Y FLAP UPPER ALPHA (2) =

-.2502 -.2618 -.2845 -.2979

EN T

1.0180 1.0460 . 000 .40. 000

DATE 13 FEB 76 TABULATED) PRESSURE DATA - 0A148 (AMES 11-073-1)	DATA -	0A14B	(AMES	11-073-1	~					₽.	PAGE 5472	57.42
	AMES 11	-073(0A)	- (84)	140A/B/C	AMES 11-073(0A148) -140A/8/C/R ORB BODY FLAP UP	90 F	LAP UP			(XEBF 16)			
ALPHA (2)043 BETA (2) =	. 193	MACH		88668 =	σ	#	599.69	Q .	•	1058.1	RN/L		3.5748
SECTION (1)BODY FLAP UPPER	M30	DEPENDENT VARIABLE CP	/ARIABI	LE CP									
X/LB 1.0180 1.0460				-									
PH1 .00125242638 40.00125862776													
ALPHA (2) = .037 BETA (3) =	. 4.263	MACH		.85983	o		599.69	۵.	•	1058.1	7		3.5748
SECTION (1)BODY FLAP UPPER	3d 30	DEPENDENT VARIABLE CP	/ARIABI	LE CP									
X/L9 1.0180 1.0460													
PH; .00025072571 .0.30027972528													
ALPHA (3) = 3.891 BETA (1) =	-3.877	MACH		.90107	σ		600.53	۵		1056.6	RN/L		3.5722
SECTION : 1180DY FLAP UPPER	3d:20	DEPENDENT VARIABLE CP	/AR I ABI	LE CP									
X/L8 :.0190 1.0460													
PHI .C.0024852609 .C.40237827473					,								
ALPHA (3) = 4.016 BETA (2) =	. 188	MACH		.90107	O		500.53	٥.	•	1056.6	RN/L	,	3.5722
SECTION (1) BODY FLAP UPPER	05.PE	DEPENDENT VARIABLE CP	ARIABL	LE CP									
X/LB 1.0183 7.0460													
1Hd 1GC - C2452 - CCC.O4 1GC.O45 - CCC.O4	,												
ALPHA (3) = 4.017 BETA (3) +	4.257	MACH		.90107	o	9	600.53	•		1056.6	FR/L	,	3.5722
SECTION (1)BODY FLAP UPPER	3430	DEPENDENT VARIABLE CP	ARIABL	E CP									
X/LB 1.0189 1.0450													
PHI .00024412662 .9.00026502748													

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DATE 13 FEB 76	EB 76		2	TABULATED		SURE DV	4TA - 0	PRESSURE DATA - DAIYB (AMES 11-073-1)	5 11-07	/3-1)						PAGE 5473	5473
					AME	11-07	7310A]4	AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP UP	/C/R 0R	.008 80 80	r FLAP UP		1	(XEBF 16)	_		
ALPHA (4)	Ħ	7.979	BETA	BETA (1) =		853	MACH	-3.638 MACH: = .90107	0		= 600.53	a		1056.8	Ž	*	3 5741
SECTION (1)BODY FLAP UPPER	T) BCDY	FLAP U	PPER			DEPEND	ENT YA	DEPENDENT VARIABLE CP									
X/LB	1.0180	1.0180 1.0460	0				A** • • • •										•
P+1 .000 +0.000	2425	2665 2461	10														
ALPHA (4)	11	7.924	BETA	BETA (2) =		181	MACH	.181 MACH = .90107	G	μ	600.53	۵		1056.6	200	•	2 5741
SECTION (1)BODY FLAP UPPER	1.18007	FLAP UF	PER			DEPEND	ENT VA	DEPENDENT VARIABLE CP								1	
X7LB	1.0:30	1.0:30 1.0463															
PH] .000 46.000	23:5 2437	247;					***************************************										
ALPHA (4) =		7.921	BETA	BETA (3) #	÷	257	MACH	4.257 MACH = .90107	a		600.53	۵		1056 G	NO	,	2 K741
SECTION (1)SODY FLAP UPPER	1) SCDY	FLAP UP	PER		•••	CEPENDI	ENT VAR	DEPENDENT VARIABLE CP							;		
X'LB	1.0180	1.0180 1.0450					w na mar ny comita d										
PH! .000 .40.000	2410 2479	2583	ence i managemba														

= 1057.6 599.65 .90000 DEPENDENT VARIABLE CP .182 MACH ALPHA (5) = 11.928 BETA SECTION (1) BODY FLAP UPPER -.2557 -.2870 -.2495 -.2552 1.0180 1.0450 -.2518 -.2776 . 000 . 000 .055 40.950

3.5745

PN/P

1057.6

DEPENDENT VARIABLE CP

-3.856 MACH

ALPHA (5) = 11.916 SETA

SECTION 1 11803Y FLAP UPPER

1.0180 1.0450

X/LB

The same of the same of the same of the same of

AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP UP = 599.65 TABULATED PRESSURE DATA - DAIYB (AMES 11-073-1) 4.273 MACH = .90000 DEPENDENT VARIABLE CP BETA SECTION (11800Y FLAP UPPER 1.0180 1.0469 -.2732 -.2749 -.2739 -.2782 ALPHA (5) * 11.917 DATE 13 FEB 76 PH1 .000 40.000 X/L9

PAGE 5474

(XEBF 16)

1057.6 RN/L

= 3.5745

TABU REFERENCE DATA	TABULATED PRESSURE DATA - OA148 (AMES 11-073-1) AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP UP	148 (AMES	11-073-1 /R ORB B() OOY FLAP	S	_	(XEBF17) PARAMETRIC DATA	20	PAGE 5475
XMRP = YMRP = ZMRP =	1076.6500 IN. XO .0000 IN. YO 375.0030 IN. ZO		·		RUEDER BOFLAP R-ELVN		.000 .000	SPDBRK # L-ELVN #	35.000 .000 .600
2	-7.854 MACH5969 DEPENDENT VARIABLE CP	59694	ø	• 595.28	28 P		* 2386.4	RN/L	+.8216
(5) :	-3.838 MACH =	. 59694	O	≈ 595.28	28 P		= 2385.4	RN/L	* 4.8216
	UEPENDENI VAKIABLE LP	ABLE CF							
3) =	.201 MACH = .5969 DEPENDENT VARIABLE CP	59694 ABLE CP	ø	= 595.28	&	-	- 2386.4	PN/L	- 4.B216
H Î	4.270 MACH = .5969 DEPENDENT VARIABLE CP	. 59694 ABLE CP	o	• 595.28	a. 82		. 2386.4	RN/L	* 4.8215

1.0:80 1.0460

X/LB

DATE 13 FEB 76 TABULATED PR	PRESSURE DATA - 0A148 (AMES 11-073-1)	11-073-1)	<u> </u>			í	PAGE 5476
ALPHA (1) = -4.101 BETA (5) =	RICS 11-0/3(UA)48) -14UA/B/C/R URB BODT FLAP UP		7 FLAP UP	۵	(XEBF17)	ج ج	1 1 1
	DENT VARIAB			•			
X/LB 1.0180 1.0450							
PH1 .00023992560 40.00029473213	•						
ALPHA (2) * . 084 BETA (1) =	-7.892 MACH = .59642	•	594.20	۵	2386.3	FN/L	= 4.8159
SECTION (1)BODY FLAP UPPER	DEPENDENT VARIABLE CP						
X/LB 1.0!80 1.5463							
PHI .COC25532873 40.00023612771							
ALPHA (2) = .094 BETA (2) = .	-3.858 MACH = .59542	0	594.20	۵	- 2386.3	PN/L	4.8159
SECTION : 1)BODY FLAP UPPER	CEPENDENT VARIABLE CP						
X/LB 1.0180 1.0450							
PHI .00024232820 40.00023362499							
ALPHA (2) = .071 BETA (3) =	.198 MACH = .59642	•	594.20	۵	- 2386.3	FN/L	* 4.8159
SECTION (1)BODY FLAP UPPER	DEPENDENT VARIABLE CP						
1.0180 1.0450							
PH1 .00022892552 40.00024462538							
ALPHA (2) = .058 BETA (4) =	4.249 MACH = .59642	0	594.20	۵.	- 2386.3	PN/L	- 4.B159
SECTION (1:800Y FLAP UPPER	DEPENDENT VARIABLE CP						
1.0180 1.0460							
PH1 .06023242524 40.06027593007							

DATE 13 FEB 76 TABULATED P	PRESSURE DATA - 0A148 (AMES 11-073-1)	AMES 11-07.	3-1)				PAGE 5477
	AMES 11-073(04148) -1404/8/C/R0 ORB BODY FLAP UP	0A/8/C/R0 0	RB BODY FLAP UP		(XEBF17)	5	<u></u>
ALP = (-2) = .061 BETA (-5) =	8.308 MACH ≈ .59642	9642 0	594.20	œ.	= 2386.3	PN/L	± 4.8159
SECTION : TIBODY FLAP UPPER	DEPENDENT VARIABLE CP	9					
X/L8 1.0180 1.0460							
PH: .05023142450 .000.04							
ALPHA (3) = 4.005 BETA (1) =	-7.903 MACH = .5	.59616 0	= 593.73	۵	= 2386.3	1/R	= 4.8137
SECTION : 1380DY FLAP UPPER	DEPENDENT VARIABLE CP	CP					
X-18 1.3180 1.0460							
0992'- 1042'- 000'05 0062'- 4/192'- 000'05 14/2							
ALPHA (3) = 4,010 BETA (2) =	-3.855 MACH ± .59	.59616 0	= 593.73	۵	= 2386.3	PN/L	* 4.8137
SECTION : 1:800Y FLAP UPPER	CEPENDENT VARIABLE CP	9					
X/LB 1.0180 1.9%60							
.00023982768 9-20023712554							
Alpus (3) = 4.008 BETA (3) =	.197 MACH = .59	.59516 0	= 593.73	۵.	= 2386.3	PN/S	# 4.8137
SECTION : 1180DY FLAP UPPER	DEPENDENT VARIABLE CP	9					
X/LB 1.0180 1.0460							
PH: .00021862395 +0.00023382478							
ALPHA (3) = 4.011 BETA (4) =	ч.242 мАСН = .59	.59616 0	- 593.73	۵.	= 2386.3	PN/L	- 4.813
SECTION : 1)BODY FLAP UPPER	DEPENDENT VARIABLE CP	9					
X/L3 1.0180 1.0460							
.50022342431 .50025512813					,		

ALPHA (3) = 4.014 BETA (5) =	AMES 11-073(0A148) -140A/9/C/R ORB BODY FLAP UP	/R ORB BOD	Y FLAP UP				-	
	באנו האנו		= 593,73	Q.	= 2386.3	1/8	# #.8137	
SECTION I THROUGH FLAP UPPER	DEPENDENT VARIABLE CP							
X/L9 1.0185 1.0460				_				
PH, ^I .000223724 63 4 0.30027242907								
ALPHA (4) = 7.901 BETA (1) =	-7.891 MACH = .59650	8	594.32	۵	- 98 2	Ž	1000	
SECTION (1)BODY FLAP UPPER	DEPENDENT VARIABLE CP					Ì		
X/LB 1.0190 1.0450								
01.55 288 000. - 000.54								
ALPHA 1 97 = 7.913 BETA (2) =	-3.854 MACH ≈ .59650	* a	594,32	۵.	- 2385.1	Ž	t.	
SECTION (1:BODY FLAP UPPER	DEPENDENT VARIABLE CP		l I					
X-LB 1.0190 1.0463								
74723012527 00023012420								
ALEHA (9) = 7.919 BETA (3) #	.190 MACH = .59650	0	594.32	۵	1 285 1	5	, i	
SECTION (1)BODY FLAP UPPER	DEPENDENT VARIABLE CP							
09:01 deld11 E1:								
1812 - 18181 - 18348 - 1812 - 18181 - 18348 - 1818 - 1818								
= (+) ETA (+) = (+) KHS	4.240 МАСН * .59650	0	594.32	٥.	* 2386.1	\ <u>\</u>	# B B B C B C B C B C B C B C B C B C B	
SECTION (1)BODY FLAP UPPER	DEPENDENT VARIABLE CP					!		
7.8 1.0183 1.3463								
0.5323.5353.0								
i.								

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TABULATED PRESSURE DATA - DAIWB (AMES 11-073-1)

DATE 13 FEB 76

SECTION (1980) 94-40 UPPER (5) = 8.294 NACH = 199850 0 = 594-32 P = 2386.1 PAVI = 4.595 SECTION (1980) 94-40 UPPER (7) = 7.955 NACH = 199850 0 = 593.97 P = 2386.5 PAVI = 4.597 SECTION (1980) 94-40 UPPER (7) =		AMES 11-073(04148) -140A/B/C/R ORB BODY FLAP UP	VR ORB E	30DY FLAP UP		(XEBF17)	_	
1.0180 1.0480 1.0480	. 4) = 7.914 BETA (5) =	MACH	ø		Q.		ار ار	1. B.
1.0163 1.0460 1.0263 1.0	לבופ אכטפיווי	CEPENDENT VARIABLE CP						
1.025	1.0163							
1.00 1.00	 60 60 60 60 60							
	(5) = (1,326 BETA (1) #	MACH #	ø		α		7	C110 a
100 1.0460 1.04	C 11800Y FLAP	DEPENDENT VARIABLE CP						
100	7.03.83 1.048							
1.01 1.02 1.04 SETA (2) = -3.84 MACH = .59628 Q = 593.97 P = 2386.5 PV.L P	200 - 200 800 - 200 100 - 200							
1.0180 1.0460 1.0460 1.0460 1.0460 1.0460 1.0460 1.0460 1.0460 1.0460 1.0460 1.0180 1.0460 1.0180 1.0460 1.0180 1.0460 1.0860 1	814 (S) = (1.949 BETA (2) =	RACH =	ø		u		TANE	4.00.11
1.0130 1.0450 1	TON C. L'SION FLAG	DEPENDENT VARIABLE CP						
	M.O.1 08:0.1							
A 1 5) = 11.959 BETA (3) = .189 MACH = .59628	1.883 1.883 1.883							
TION: 179537 FLAP UPPER 1.01950 1.0460 1.01950 1.0460 1.0195021912402 3.00021912529 3.000219121912529 3.0002191	(5) = 11.954 BETA (3)	MACH =	0		۵		Ž	100 t
1.0185 1.0460	1 1 BOOK FLAP	DEPENDENT VARIABLE CP						
: .000219:2402 .00023:42329 . 4 (5) = 11.952 BETA (4) = 4.250 MACH = .59628 0 = 593.97 P = 2386.5 MACH = .10007 FLAP UPPER DEPENDENT VARIABLE CP	1.0180 1.098							
A (5) = 11.952 BETA (4) = 4.250 MACH = .59628 0 = 593.97 P = 2386.5 PN/L = 11.0007 FLAP UPPER DEPENDENT VARIABLE CP	900 1 000 1 000							
TICN F 13805Y FLAP UPPER	(5) = 11.952 BETA (4) =	MACH #	o		Q.		7/ X 6	1 (a) 1
1.0180	I INBOOK FLAP	DEPENDENT VARIABLE CP						
	1.0180							

PAGE 5480 776 (XEBF17) 2385.5 U. AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP UP = 593.97 TABULATED PRESSURE DATA - DAIMB (AMES 11-073-1) o 8.320 MACH = .59628 DEPENDENT VARIABLE CP BETA (5) = SECTION (1)BODY FLAP UPPER 1.0180 1.0455 -.2512 -.2798 -.2917 -.3060 ALPHA (5) # 11.942 DATE 13 FEB 75 X/LB

等,我们也是不是不是不是不是一个,我们也不是不是不是不是不是一个,我们就是一个人,也是不是我们的,也可以不是一个人,也可以不是一个人,也可以不是一个人,也可以不

DATE 13 FEB 75 TABULATED	O PRESSURE DATA - DAIM8 (AMES 11-073-1)				u.	PAGE 5481
	ANES 11-07310A148) -140A/B/C/R ORB BODY FLAP UP	FLAP UP		(XE8F18)	-	05 AUG 75)
REFERENCE DATA				PARAMETRIC DATA	: DATA	*******
SHEF = 2590.0000 SQ.FT. XMRP = LASF + 474.8000 IN. YMRP = 83EF + 935.0880 IN. ZMRP = SCALE = .0300	1076.6900 IN. XO CCCO IN. YO 375.0000 IN. ZO		RUDDER = BOFLAP = R-ELVN =	.000 -11.700 .000	SPDBRK * L-ELVN * MACH **	.000.
ALPHA (1) = -4.050 BETA (1) =	= -3.954 MACH = 1.3965 0 =	599.95	a.	= 439.47	RN/L	= 2.9144
SECTION (1) BODY FLAP UPPER	DEPENDENT VARIABLE CP					
X/LB 1.3180 1.0460	-					
PHI .CCC3258 40.00033003405						••••
ALPH4 (1) = -4.042 BETA (2) =	= 1.39E5 0 =	599.95	۵	= 439.47	RN/L	= 2.9144
SECTION (1) BODY FLAR UPRER	DEPENDENT VARIABLE CP					
X/18 1.0180 1.0450						
PHI .00032653355 %0.00033263428						
ALPHA (1) = -4.051 BETA (3) =	= 4.285 MACH = 1.3965 0 =	599.95	۵	± 439.47	RN/L	- 2.9144
SECTION (1)BODY FLAP UPPER	DEPENDENT VARIABLE CP					
X/LB :.0180 1.0450						
FH: .00032383299 .00:00:33183-04						• ******
ALPHA (2) =030 BETA (1) =	= -3.874 MACH = 1.3950 0 =	599.63	.	= 440.18	J/NE	= 2.9101
SECTION (1)BODY FLAP UPPER	DEPENDENT VARIABLE CP					
X/LB 1.0180 1.6459						
PHI .00032603317 .000.00032603274						

DATE 13 FEB 76 TABULATED PRES	TABULATED PRESSURE DATA - OAI48 (AMES 11-073-1)	1-073-1				a.	PAGE 5482
AME	AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP UP	'R ORB BOD	r FLAP UP		(XEBF 18)		
ALPHA (2) =025 BETA (2) =	.186 MACH = 1.3950	o	* 599.63	۵	= 440.18	RN/L	2. 3101
SECTION (1) BODY FLAP UPPER	DEPENDENT VARIABLE CP						
X/LB 1.0180 1.0450							
PH1 .00032083253 40.00032053250				ж			
ALPHA (2) =030 BETA (3) = 4	4.265 MACH = 1.3950	o	599.63	a	- 440.18	RN/L	= 2.9101
SECTION (1) BODY FLAP UPPER	DEPENDENT VARIABLE CP						
X/L9 1.0180 1.0460							
PHI .00038733349 40.00033303368							
(LPHA (3) = 3.919 BETA (1) = -3	-3.877 MACH = 1.39+0	o	= 599.41	a .	* 440.65	RN/L	= 2.9155
SECTION (1) BODY FLAP UPPER	DEPENDENT VARIABLE CP						
X/L8 :. 0180 . 0460						•	
PHI .00031743221 40.00031743186							
ALPHA (3) = 3.922 BETA (2) =	.185 MACH = 1.3940	ø	€ 599.41	<u>.</u>	■ 440.65	RN/L	- 2.9155
SECTION (1)900Y FLAP UPPER	DEPENDENT VARIABLE CP						
X/18 1.0180 1.0%60							
PHI .05030913127 40.00031373156							
ALPHA (3) = 3,923 BETA (3) = 4	4.255 MACH = 1.3940	o	= 599.41	۵.	* 440.65	RN/L	- 2.9155
SECTION (1) BODY FLAP UPPER	DEPENDENT VARIABLE CP		<u>.</u> .				
X/LB 1.0180 1.0460							
PHI .00031873261 90.00032473280							

DATE 13 FEB 76 TABULATED P	TABULATED PRESSURE DATA - OA148 (AMES 11-073-1)	-1)			α.	PAGE 5483	
	AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP UP	BODY FLAP UP		(XE8F18)			
ALPHA (4) = 7.792 BETA (1) =	-3.867 MACH = 1.3956 0	+8.565 =	۵	# 439.94	RN/L	= 2.9129	_
SECTION (1180DY FLAP UPPER	CEPENDENT VARIABLE CP						
X/L9 1.0130 1.0453							
PHI .00032793374 ~0.00031873256		•••					
ALPHA (4) = 7.791 BETA (2) =	.182 MACH = 1.3955 0	= 599.84	۵.	= 439.94	RN/L	= 2.9129	_
SECTION (1)300Y FLAP UPPER	DEPENDENT VARIABLE CP						
x/ze 1.0180 1.0460							
PH: .20031683211 90.00031803558							
ALPHA (4) = 7.919 BETA (3) =	4.252 MACH = 1.3956 Q	+8.599.84	۵	* 439.94	RN/L	* 2.3129	
SECTION (1:SODY FLAP UPPER	DEPENDENT VARIABLE CP						
X/LB 1.0180 1.0460							
149 1600 - 13247 - 13315 1901-13325 - 13327							
%LPHA (5) = 11.807 SETA (1) =	-3.848 MACH = 1.3965 0	= 599.65	۵	* 439.24	RN/L	= 2.9163	
SECTION (1:BODY FLAP UPPER	DEPENDENT VARIABLE CP						
X/LB 1.0180 1.5450							
PHI .30034423516 .90.0932353516							
ALPH4 (5) = 11.815 BETA (2) =	.187 MACH = 1.3965 0	= 599,65	C .	+3.9.24	RN/L	= 2.9163	
SECTION (1) BODY FLAP UPPER	DEPENDENT VARIABLE CP						
X/LB 1.0180 1.0460							
PHI .00032893401 -0.00034553513							

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DATE 13 FEB 76 TABULATED		DATA -	PRESSURE DATA - DAIHB (AMES 1:-073-1)	1:-073-1	_					α.	PAGE 5484
	AMES 11-	-073(0A)	AMES 11-073(0A149) -140A/B/C/R ORB BODY FLAP UP	C/R 0RB B	DODY F	LAP UP	~	×	(XE8F18)		
ALPHA (5) = 11.810 BETA (3) =		4.268 MACH	= 1.3965	ø		599.65	۵	# 439.24		RN/L	= 2.9163
SECTION (1)BODY FLAP UPPER	3430	NDENT	DEPENDENT VARIABLE CP								
X/LB 1.0180 1.0460											
PHI .00034633467 46.00034883512											
ALPHA (6) = 15.906 BETA (1) =	-3.833	MACH	= 1.3951	o		599.73	۵	* 440.18		RN/L	* 2.9184
SECTION (1)BODY FLAP UPPER	3430	NDENT V	DEPENDENT VARIABLE CP			11.00					
X/LB 1.0180 1.0460											
1Hd 1900.cv - 3588 - 3589 1900.cv - 3759											
ALPHA (5) = 15.920 BETA (2) =	. 18 4	MACH	= 1.3951	ø	Ħ	599.73	Q.	°= 440.18		RN/L	* 2.9184
SECTION ! 1:BODY FLAP UPPER	DEPE	NDENT V	DEPENDENT VARIABLE CP		•						
X/L3 1.0180 1.0450											
1Hd . G00 3552 . G02 3552	e.										
ALPHA (8) * 15.910 BETA (3) =	4.299	MACH	= 1.3951	σ		599.73	a .	# 440.18		RN/L	= 2.9184
SECTION (1) SODY FLAP UPPER	3d30	NDENT V	DEPENDENT VARIABLE CP								
X'LB 1.0180 1.0460					÷						
PH(3595 - 3700. 3635 - 3670 h											

DATE 13 FEB	.B 76	TABULATED P	RESSURE	DATA -	TABULATED PRESSURE DATA - OAI48 (AMES 11-073-1	11-073-1	•			_	PAGE 5485	
			AMES 11-	07310A1	AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP UP	/R ORB B0	OY FLAP UP		(XE8F19)	_	05 AUG 75 3	
	REFERENCE DATA	TA							PARAMETRIC DATA	C DATA		
SCALE # 5	2690.0000 SQ.FT. 474.8000 IN. 936.0690 IN.	XMRP = 10 YMRP = 2 ZMRP = 3	1076.6903 .6000 375.6000	N. XO N. YO N. YO				RUDDER = BOFLAP = R-ELVN =	.000 -11.700	SPOBRK = L-ELVN = MACH =	.000 .000 1.250	
ALPHA (1)	8+0.4-	BETA (1) =	-3.848	MACH	= 1.2478	o	= 600.12	۵.	■ 550.64	RN/L	3.0180	
SECTION (SECTION (1)BODY FLAP UPPER	ī,	DEPE	NDENT V	DEPENDENT VARIABLE CP							
X/LB	1.0180 1.0460											
PH1 .000 40.000	35483555 35013550						1,111					
ALPHA (1)	-3.974	3€TA (2) ≈	. 192	MACH	= 1.2478	σ	= 600.12	Q.	= 550.64	RN/L	= 3.0180	
SECTION (11BODY FLAP UPPER	æ	DEPE	NDENT V	DEPENDENT VARIABLE CP							
e1/ x	1.0180 1.0460						·					•
PH1 .066 40.000	34833573 35023533											
ALPHA (1)	-3.984	BETA (3) =	4.283	MACH	= 1.2478	0	= 600.12	Q.	= 550.64	RN/L	= 3.0180	
SECTION ((1)BODY FLAP UPPER	es.	DEPE	VDENT V.	DEPENDENT VARIABLE CP							
x/L8	1.0180 1.0460											
PH1 .960 +0.600	35913643 36553705											
ALPHA (2)	=051 BE	BETA (1) =	-3.861	MACH	= 1.2471	o	= 599.71	G	= 550.87	FN/L	= 3.0179	
SECTION (SECTION (1)BODY FLAP UPPER	ρĸ	DEPE	CENT V	DEPENDENT VARIABLE CP							
x/:3	1.0180 1.0460											
PHI 0000. 40.030	3563 35083525											

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DATE 13 FEB 76 TABULATED PRESSURE DATA - DAIHB (AMES 11-073-1)	•			ц	PAGE 5486
AMES 11-073:0A148) -140A/B/C/R ORB BODY FLAP UP	ODY FLAP UP		(XE8F19)		
ALPHA (2) =007 BETA (2) = .182 MACH = 1.2471 0	= 599.71	۵	550.87	RN/L	3.6179
SECTION (1) BODY FLAP UPPER DEPENDENT VARIABLE CP					
X/LB 1.0180 1.0460					
PH1 .00033883449 .000.00					
ALPHA (2) =013 BETA (3) = 4.263 MACH = 1.2471 0	599.7 1	Q.	- 550.87	RN/L	= 3.0179
SECTION (1) BODY FLAP UPPER DEPENDENT VARIABLE CP					
X/LB 1.0180 1.0460					
PHI .COO36123641 +0.00035393684					
ALPHA (3) = 3.859 BETA (1) = -3.873 MACH = 1.2484 Q	= 600.53	۵.	≠ 550.41	RN/L	= 3.0214
SECTION (1) BODY FLAP UPPER DEPENDENT VARIABLE CP					
X/LB 1.6180 :.0460					
PH] .00034573521 40.00034623514					
ALPHA (3) = 3.905 BETA (2) = .178 MACH = 1.2484 . 0	= 600.53	٥	* 550.41	FW/L	3.021 4
SECTION (1) BOCY FLAP UPPER DEPENDENT VARIABLE CP					
X/LB 1.3180 1.0460					
1H6:					
ALPHA (3) = 3.928 BETA (3) = 4.253 MACH = 1.2484 Q	= 600.53	۵	- 550.41	RN/L	- 3.0214
SECTION (1) BODY FLAP UPPER DEPENDENT VARIABLE CP					
X/LB 1.0180 1.0460					
PHI .00035273532 +0.00035583592					

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DATE 13 FEB 76 TABULATED PRE	PRESSURE DATA - 0A148 (AMES 11-073-1)	11-073-1	•	ļ	,		PAGE 5487
AF	AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP UP	/R ORB B	ODY FLAP U	α.	(XEBF19)	9	
ALPHA (4) = 7.851 BETA (1) = .	-3.877 MACH = 1.2474	o	* 600.07	7 Р	= 550.87	RN/L	= 3.0223
SECTION (1) BODY FLAP UPPER	DEPENDENT VARIABLE CP						
X/LB 1.0150 1.0460							
PH1 .00036023652 .00.004							
ALPHA (4) = 7.971 BETA (2) =	.182 MACH * 1.2474	o	= 600.07	a	= 550.87	RN/L	= 3.0223
SECTION (1)BODY FLAP UPPER	DEPENDENT VARIABLE CP						
X7LB 1.0180 1.0460							
PH: .ccc35673593 .ucccc35673636							
ALPHA (4) = 7.972 BETA (3) =	4.253 MACH = 1.2474	a	- 600.07	a .	- 550.87	FRV/L	= 3.0223
SECTION (1)BODY FLAP UPPER	DEPENDENT VAR! ABLE CP						
X/ZB 1.0:80 1.0460							
ind .32035993738 40.55038173818							
ALPHA (5) = 11.905 BETA (1) = -	-3.844 MACH = 1.2483	o	= 600.41	۵.	= 550.41	RN/L	3.0228
SECTION (1:BODY FLAP UPPER	DEPENDENT VARIABLE CP						
X/L9 1.0180 1.0460							
PH1 .00037253857 %0.00035683537							
ALPHA (5) = 11.915 BCTA (2) =	.187 MACH = 1.2483	0	= 600.41	Q.	- 550.41	RN/L	3.0228
SECTION (1) BODY FLAP UPPER	DEPENDENT VARIABLE CP						
x/L9 1.0180 1.0460							
PH1 .35037453742 40.88837853858				į			

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PAGE 5488					
u .		RN/L			
	(XEBF19)	= 550.41			
		۵.			
	FLAP UP	* 600.41			
-	BODY				
11-073-	/R ORB	0			
S AMES	140A/B/C	4.269 MACH = 1.2483	LE CP		
0A 14E	- (84	H	AR I AB		
ATA -	17310A1	MACH	DEPENDENT VARIABLE CP		
PRESSURE DATA - DAI48 (AMES 11-073-1)	AMES 11-073(04148) -140A/B/C/R ORB BODY FLAP UP	4.269	DEPEN		
TABULATED P		BETA (3) =	et aga en en egengt, a	-	
T.			UPPER	20	32.5
		907	FLAP	1.0±	1.4C
75			BODY	1.0:80 1.0460	38734004 39373930
84		" 10	 _=	,	-
DATE 13 FEB 76		ALPHA (5) = 11.907	SECTION 1 1900Y FLAP UPPER	X/LB	PHI .030 40.030

PAGE 5489	. 37		000.	3.1893				3.1893				3.1893				3.1906
AGE	AUG			Ħ				И								
<u>α</u>	D) (05 AUG 75	DATA	SPDBRK = L-ELVN = MACH =	RN/L				RN/L				PN/L				PN/L
	(XEBF20)	PARAMETRIC DATA	.000.	= 707.48				94.707				84.707			·	708.39
			RUDDER = BDFLAP = R-ELVN =	<u>.</u>				a.				.				a .
	FLAP UP			99.109				601.66				601.66				501.17
<u>-</u>	BODY			n				Ħ								,
1-073	R ORB			ø				ø				0				o
PRESSURE DATA - 04148 (AMES 11-073-1)	AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP UP			* 1.1022	DEPENDENT VARIABLE CP			= 1.1022	DEPENDENT VARIABLE CP			± 1.1022	DEPENDENT VARIABLE CP			1.101.1
DATA - 0	073(0A14		IN. X0 IN. X0 IN. Z0	МАСН	NDENT VA			MACH	NDENT VA			MACH	NDENT VAI			PACH
??ESSURE	AMES 11-		1076.6800 1 10000. 175.0000 1	-3.843	DEPE			. 189	3630			4.285	DEPE			-3.867
TABULATED F			8 II II	= (1)				(5) =				(3) =				= = =
TAI		DATA	T. XMRP YMRP ZHRP	BETA	UPPER	60	275 818	BETA	UPPER	83	<u> </u>	BETA	UPPER	29	88 11	BE 7.A
		REFERENCE DATA	2690.0000 SQ.FT 474.8000 IN. 936.0480 IN.	-4.047	SECTION (1)BODY FLAP UPPER	1.0180 1.0460	39403975 3984 - 3918	179.5- =	13800Y FLAP UPPER	1.0180 1.3460	+,3708 -,3945 +,3782 -,3905	= -3.658	SECTION (1)800Y FLAP UPPER	1.0180 1.6460	-,3830 -,4029 -,3882 -,4017	1.038
DATE 13 FEB			80 10 10 10 10 10 10 10 10 10 10 10 10 10	ALPHA (1)	SECTION (x/Le	PHI .000 40.000	ALPHA (11	SECTION (e 7/x	1Hq 000000000000000000000000000000000000	ALPHA (:)	SECTION (87.78	000 000 000 000 000 000 000 000 000 00	ALPHA (-2)
													_, ,	D A 4	nto 154	

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ORIGINAL PAGE IS OF POOR QUALITY CEPENCENT VARIABLE CP

BEDITON (1) BODA ELAP UPPER

1.0:80 1.0460

51./x

-.3933 -.3766

-,3658

7.2 7.3 7.4 7.4

DATE 13 FEB 75 TABULATED PRESSURE DATA - DAIWB (AMES 11-073-1)		•	PAG	PAGE 5490
AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP UP	Č	(XEBF20)		
ALPHA (2) *059 BETA (2) * .183 MACH * 1.1011 0 * 601.17	p = 708	708.39 Rt	RN/L =	3.1906
SECTION : 1180DY FLAP UPPER DEPENDENT VARIABLE CP				
X/LB 1.0190 1.5465				
PH1 .00035913623 40.00036363752				
ALPHA (2) =052 BETA (3) = 4.261 MACH = 1.1011 Q = 601.17	P = 708	708.39 RP	RN/L	3,1906
SECTION (1) BODY FLAP UPPER DEPENDENT VARIABLE CP				
X/LB 1.6180 1.9460				
PH! .00536913957 90.00637053821				
ALPHA (3) = 3.855 BETA (1) = -3.869 MACH = 1.1013 0 = 601.26	P = 708	708.15 RA	RN/L .	3.1838
SECTION (1) BODY FLAP PPER DEPENDENT VARIABLE CP				
X/LB 1.0180 1.0+50				
### 1995 - 3695 - 500 PM				
ALPHA (3) * 3.924 BETA (2) * .189 MACH * 1.1013 Q * 601.26	P = 708.15		FN/L .	3.1838
SECTION (1) BODY FLAP UPPER DEPENDENT VARIABLE CP				
X/LB 1.0469				
IHd: 35113539 360.043741				
ALF44 (3) = 3.921 (8ETA (3) = 4.251 MACH = 1.1013 0 = 601.26 P	= 708.16		RN/L .	3.1838
SECTION (1)800Y FLAP UPPER DEPENDENT VARIABLE CP				
X/LB :.0180 1.0450				
PH1 .00336773852 -0.00037323835				

DATE 13 FEB 76 TABU	TABULATED P	RESSURE 1	DATA -	PRESSURE DATA - CA148 (AMES 11-073-1)	AMES 11	-073-1	_				Ω.	PAGE 5491	<u>16</u>
		AMES 11-	073(0A)	AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP UP	A/B/C/F	ORB B	אסע	AD UP		(XEBF20)			
ALPHA (4) = 7.863 BETA (= (1)	-3.854	MACH	= 1.1008	800	a	1 0	600.53	۵.	16.707	RN/L	m m	3.1857
SECTION (1)800Y FLAP UPPER		GPE!	NDENT V	DEPENDENT VARIABLE CP	e.								
X723 1.0180 1.0460													
PH1 .03037673876 43.00037583827													
ALPHA (4) = 7.865 BETA ((2) *	. 180	MACH	= 1.1008	800	o		500.53	<u>α</u>	16.707	:/ Æ	m M	3.1857
SECTION (1)800Y FLAP UPPER		13430	NDENT \	DEPENDENT VARIABLE CP	ಹಿ								
X/LB 1.0:80 1.0460				•									
PH1 .00035893832 90.0003789													
ALPHA (4) = 7.853 BETA ((3) =	4.247	MACH	* 1.1008	800	ø		600.53	α.	16.707	3	mi H	3.1857
SECTION (1)300Y FLAW UPPER		DEPE	NDENT 1	DEPENDENT VARIABLE CP	ಕ್ಷಿ								
X/L9 1.0180 1.0460													
PHI .00038453888 40.00038503935													
1, F. A (5) = 11.933 BETA ((1) =	-3.846	MACH	₹ 1.1003	200	o	H D	600.53	۵	708.60	-1/NE	w W	3.1882
SECTION (1:800Y FLAP UPPER		13e30	NOENT	DEPENDENT VARIABLE CP	ಕಿ								
X/L8 1.6180 1.0460													
PHI .00039334018 .40.00033804009													
ALPHA (5) = 11.911 BETA (r (5) =	. 183	МАСН	₹ 1.1003	200	o	u H	600.53	۵	708.60	1/8 2/1	mi H	3.1882
SECTION (1) BCDY FLAP UPPER		3430	NDENT)	DEPENDENT VARIABLE CP	8								
X/LB 1.0180 1.0450													
PH1 .C053920029 .c77 123920													

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46.000 - .3951 - .3934

DATE 13 FEB 76 TABUL	TABULATED PRESSURE DATA - DAIWB (AMES 11-073-1)		TO EC
	AMES 11-073(0A148) -140A/B/C/R 0RR BODY F1 AP 110		X Section 1
ALF 4A (5) = 11.905 BETA (3) =			i
SECTION (. 1805Y FLAP UPPER		108.50	37.1385 37.1385
X/LB (1.0450)			
PHI .000 - 3331 - 4071			

CATE 13 FEB 76

TABULATED PRESSURE DATA - 0A148 (ANES 11-073-1)

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PASE SESS 05 AUG 75

AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP UP

PARAMETRIC DATA

(XEBF21)

SPOBRK L-ELVN **

RUDDER BEFLAP BR-ELVN

į

3.5593

= 1058.5

σ.

600.22

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. 90000

-3.849 MACH

ALPHA (13 = -4.037 BETA (1) =

SECTION () BODY FLAD UPPER

1.0183 1.0463

e 1.x

07 .0000 IN. YO . 375.0000 IN. ZO .

7 KW 11 P

0.000 000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.

REFEDENCE DATA

DEPENDENT VARIABLE CP

Z (r

1259.5

600.22

C

- .90000

MACH

. 192

DEPENDENT VARIABLE CP

1.0000 0.0000 0.0000

- 1 1.0000 1.0000 1.0000

40.030 0.030 0.030

ω ω BETA ALPHA (1) = -4.030

RECTION (1:8002 FLAL GAPER

1.0180 1.04**63**

ET/X

40.000 0000.000

-.2932 -.2593 -.2553 -.2593

SECTION (1)800Y FLAP UPPER ALPHA # 11 # 4.049

3.5693

1058.5

۵

600.22

c

.90000

4.289

33

BETA

DEPENDENT VARIABLE OF

3.5582

ž

1358.5

O.

599.08

O

.89917

PACH

-3.875

DEPENDENT VAR'ABLE CP

1.0180 1.0+50 X/LG

7.8313 7.8835 1.000 0.000 0.000 0.000 PH: 280.04

ATER PETA SECTION (1)800* FLAP UPPER ALPHA (2)

1.0:30 8778

1.0+53

- . 275**5** - . 2394 000.0₹

7.2534 7.2574

Pod Section 1

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DATE 13 FF3 7B TABULATED I	PRESSURE DATA - DAIWB (AMES 11-073-1	1-073-1 3			n	7679 38Ya
	AMES 11-073:04148) -1404/8/C/R ORB BODY FLAP UP	R ORB BODY FLAP U	α.	[XEBF2]]	es	
ALPHA (2) = .031 BETA (2) =	.:85 MACH = .89917	0 * 593.08	a .	1058.5	3 2/E	± 3.5562
SECTION (1) BODY FLAP UPPER	DEPENDENT VARIABLE CP					
X/LB 1.0190 1.0450						
PH: .cce750cc .ccc .ccc .ccc .cc .cc .						
ALPHA (2) = .021 BETA (3) =	4.265 MACH * .89917	Q * 599.08	a.	* 1058.5	. 4 Æ	* 3.5582
SECTION (1)BODY FLAP UPPER	DEPENDENT VARIABLE CP					
CBHC'1						
195 195 195 195 195 195 195 195 195 195						
ALPHA (3) = 3.922 BETA (1) =	-3.878 MACH ≈ .8995G	0 = 599.38	O.	■ 1058.3	i.	= 3.5582
83deN 6473 A006(1 3 NO)103S	DEPENDENT VARIABLE CP					
09H011 081011 87/X						
948'- 6252'- 000' '950'- 6252'- 000'						
1,844 (3) = 3,975 SEIA (2) =	.198 MACH = .89950	0 • 599.38	۵.	# 1058 W	Ž	3.5582
SECTION OF BODY FLAP UPPER	DEPENDENT VARIABLE CP					
3.0383 1.0483						
176 1853 - 1855 - 185						
3.972 SETA 133 #	4.250 MACH = .89950	0 ≠ 599.38	u.	# 1058.4	ż	* 3.5582
Baden a TH KOOBOL I NOILLE	DEPENDENT VARIABLE CP					
7/18 1.0180 1.0460						
66+2						

PAGE 5495 (XE8F21) * 1058.5 RN/L * 3.5684	* 1058.5 RN/L * 3.5684	* 1058.5 RN/L * 3.5684	* 1058.5 RN/L * 3.5727	= 1058.5 RN/L = 3.5727
<u>.</u>	۵	Q.	Q.	a .
-1) BODY FLAP UP = 599.41	≠ 599.41	1 599.41	= 600.39	* 600.39
F 11-073 C.R ORB 0	O	O	O	œ
PRESSURE DATA - 0A148 (AMES 11-073-1) AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP UP -3.870 MACH = .89943 0 = 599.41 DEPENDENT VARIABLE CP	.186 MACH = .59943 DEPENDENT VARIABLE CP	4.257 MACH = ,89943 DEPENSENT VARTABLE CP	-3.861 MACH = .90017 DEPENDENT VARIABLE CP	.190 MACH = .90017 DEPE.,JENT VARIABLE CP
4BULATED (1) =	# (6)	# (2)	" " "	# (d
13 FEB 76 100 (1) = 7.906 BETA 100 (1)800Y FLAP UPPER 1.0:80 1.0460	PHI .00025332542 .0.50022322430 ALPHA ' 4) = 8.017 BETA SECTION : 1)5007 FLAP UPPER X/LB 1.0180 1.0460	200 - 2501 - 2444 40.000 - 2590 - 2309 ALP4 (4) = 5.014 BETA SECTION (1)800Y FLAP UPPER X*LB 1.0180 1.0450	SELTION (1) BODY FLAP UPPER X LB	FINAL 190025502724 40.00025032629 ALPHA (S) = 11.955 BETA SECTION (1)800Y FLAP UPPER X/LB 1.0180 1.0460 PHI 000026552830 45.0002555

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ORIGINAL PAGE IS OF POOR QUALITY

AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP UP = 600.39 TABULATED PRESSURE DATA - OAIY8 (AMES 11-073-1) a .90017 DEPENDENT VARIABLE CP MACH BETA (3) = SECTION (1)BODY FLAP UPPER 1.0180 1.0460 -.2352 -.2849 -.2608 -.2706 ALPHA (5. = 11.946

= 3.5727

RNI

1058.5

PAGE 5496

DATE 13 FEB 76

РН] .000 +0.000

X/LB

11.5

2.4 1.2 1.2 2.3 2.3

DATE 13 FEB 76 TABULATED	TED PRESSURE DATA - 0A148 (AMES 11-073-1) AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP UP	3-1) B BODY FLAP UP		(XEBF22)	8	PAGE 5497 05 AUG 75)
REFERENCE DATA				PARAMETRIC DATA	: DATA	
SPEF = 2690.0009 S0.FT. XMRP = LMEF = 474.5000 IN. YMSP = S0.0690 IN. ZMRP = SCALE = .0300	= 1076.6800 IN. XO .0000 IN. YO = 375.CCC IN. ZO		RUDDER = BDFLAP = R-ELVN =	.000 -11.700 .030	SPDBRK = L-ELVN = MACH =	000.
ALPHA (1) = -4.045 BETA (1)	0 = -7.855 MACH = .59580 0	× 594.79	۵	= 2385 5	RN/L	= 4.8530
SECTION (1)BODY FLAP UPPER	DEPENDENT VARIABLE CP					
X/LB 1.0160 1.0460						
148 148 148 148 148 148 148 148 148 148						
ALPH2 (1) = -3,970 BETA (2)	1 = -3.843 MACH = .59680 Q	= 594.79	٥	= 2385.6	RN/L	= 4.8530
SECTION : 13800Y FLAP UPPER	DEPENDENT VARIABLE CP					
X/LS 1.0190 1.0460						
5253 - 5353 - 5753 40.000 - 5450 - 5553						
ALPHA (1) = -3.957 BETA (3)	1 = .189 MACH = .59680 0	= 594.79	۵	- 2385.6	RN/L	* 4.8530
SECTION (1) BODY FLAP UPPER	DEPENDENT VARIABLE CP					
58-571 381011 ET.X						
797 - 2763 - 2655 - 000 - 2763 - 2655 - 0000 - 2465						
ALPHA (13 m -3.955 BETA (4)	1 = 4.271 MACH = .59680 Q	= 594.79	a	= 2385.6	RN/L	= 4.8530
edder wile Access o Actions	DEPENDENT VARIABLE CP					
X/LB 1.0180 1.0480						
PHi .33026562768 40.53526392675						

. PAGE 5498 UP (XEBF22)	.79 P = 2385.6 RN/L = 4.8530			8958 # = 1/N8 E 58E2 = d 99				66 P = 2385.3 RN/L = 4.8568				66 P = 2385.3 RN/L = 4.8568				36 P = 2385.3 RN/L = 4.8568			
CESSURE DATA - 0A148 (AMES 11-073-1) AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP UP	.59680 0 = 594.79	d)		.59678 0 = 594.66				.59678 0 \$ 594.66	ಕ್ರಿ			.59678 0 = 594.66				.59678 0 = 594.56	93		
ů.	8.350 масн = .5	DEPENDENT VARIABLE CP		-7.896 MACH = .59	DEPENDENT VARIABLE CP			-3.863 MACH * .59	DEPENDENT VARIABLE CP			.189 MACH = .59	DEPENDENT VARIABLE CP			4.250 MACH * .59	DEPENDENT VARIABLE CP		
DATE 13 FEB 76 TABULATED P		SECTION (1)80DY FLAP UPPER X/LB 1.0180 1.0460	PH1 .00028272896 +0.00025182820	ALPHA (2) =025 BETA (1) =	SECTION (1)BODY FLAP UPPER	X/LB 1.0189 1.0460	PH; .CGD245!2848 +0.CGD24632618	ALPHA (2) =014 BETA (2) =	SECTION (1)BODY FLAP UPPER	X/LB 1.0180 1.0450	PH! . 328 2788 2638 320 2543	ALPHA (2) = .070 BETA (3) =	SECTION (1180DY FLAP UPPER	X/L9 1.0180 1.0460	PH! .03025252597 +0.30223922495	ALPHA (2) = .063 BETA (4) =	SECTION (1:30DY FLAP UPPER	X/LB 1.0180 1.0460	PHI .60325482647 49.5002452602

DATE 13 FEB 76 TABULATED	PRESSURE DATA - DAINB (AMES 11-073-1)	1-073-1				PAGE 5499
	AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP UP	R ORB BODY FLAP UP		(XE8F22)		
ALPHA (2) = .058 BETA (5) =	8.310 MACH = .59678	0 = 594.66	۵	= 2385.3	RN/L	= 4.8568
SECTION (1)BODY FLAP UPPER	DEPENDENT VARIABLE CP					
X/LB 1.0180 1.0460						
PHI .00027442768 40.00025522847						
ALPHA (3) = 3.933 BETA (1) =	-7.911 MACH = .59760	0 * 596.20	۵	= 2385.0	RN/L	= 4.8680
SECTION (1)BODY FLAP UPPER	DEPENDENT VARIABLE CP					
X/LS 1.0180 1.0460						
PH: .30325132894 .0.00024152515	·					
ALPHA (3) = 3.935 BETA (2) =	-3.866 MACH = .59760	0 = 596.20	۵	- 2385,0	RN	- 4.8580
SECTION (11800Y FLAP UPPER	DEPENDENT VARIABLE CP			•		
X/LB 1.0180 1.0460						
PHI .00028152601 96.00029652485						
ALPHA (3) = 3.935 BETA (3) =	.172 MACH = .59760	Q = 596.20	۵.	= 2385.0	RN/L	* 4.8680
SECTION (1) BODY FLAP UPPER	DEPENDENT VARIABLE CP	· .				
N/19 1.0150 1.0460						
945 2558 - 2516 9353 2335 330.0+		*. *				
ALPHA (3) = 4.026 BETA (4) =	4.240 MACH = .59760	0 = 596.20	۵	= 2385.0	RAZ	- 4.8680
SECTION (1)BODY FLAP UPPER	DEPENDENT VARIABLE CP					
X/LB 1.0180 1.0450						
PH! .05025052593 40.00023702467	. 1 <u>2</u>	. *				

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DATE 13 FEB 76 TABULATED PR	TABULATED PRESSURE DATA - OAI48 (AMES 11-073-1)	1-073-1					PAGE 5500	00
	AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP UP	R ORB BODY F	LAP UP		(XEBF22)			
ALPHA (3) = 4.030 BETA (5) =	8.292 MACH * .59760	H 0	596.20	۵	= 2385.0	RN/L	÷	4.8680
SECTION (1)BODY FLAP UPPER	DEPENDENT VARIABLE CP							
X/LB 1.0180 1.0469								
PH1 .00028462671 40.00025032505								
ALPHA (4) = 7.901 BETA (1) =	-7.896 MACH = .59758	•	596.20	٩	• 2385.1	RN/L	÷ •	4.8692
SECTION (1)BODY FLAP UPPER	DEPENDENT VARIABLE CP							
X/LB 1.0180 1.0460								
1H9 .00026832899 .00024272652								
ALPHA (4) = 7.913 BETA (2) =	-3.861 MACH ≈ .59758		596.20	۵	= 2385.1	RN/L	÷ *	4.869 <i>2</i>
SECTION (1)BODY FLAP UPPER	DEPENDENT VARIABLE CP							
X/LB 1.0180 1.0469								
PH1 . GJG 2575 2523 +0.9GG 2255 2412								
ALPHA (4) = 8.049 BETA (3) =	.175 MACH = .59758	•	596.20	۵.	= 2385.1	RN/L	÷ •	4.8692
SECTION (1)BODY FLAP UPPER	DEPENDENT VARIABLE CP							
X/LB 1.0190 1.0460			. •					
PHI .00023642471 90.0002383								
ALPHA (4) = 8.049 BETA (4) #	4.238 MACH = .59758	•	596.20	۵.	* 2385.1	RN/L	<i>;</i>	4.8692
SECTION (1)BODY FLAP UPPER	DEPENDENT VARIABLE CP							
X/LB 1.0180 1.0460								
PHI .00025502555 9.0002394			•					

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DATE 13 FEB 76 TABULATED PRE	PRESSURE DATA - 0A148 (AMES 11-073-1)	11-073-1)	<u>ç</u>			PAGE 5501
	ATES 11-0/3(0A148) -140A/B/C/R CRB BODY FLAP UP	'R ORB BODY FLAI	ج م	(XE8F22)		
ALPHA (4) = 8,046 BETA (5) =	8.297 MACH = .59758	0 = 59	596.20 P	= 2385.1	RN/L	₹ 4.8692
SECTION (1)BODY FLAP UPPER	DEPENDENT VARIABLE CP					
X/LB 1.0180 1.0460						
7H1 .00028252685 .00024152534						
ALPHA (5) = 11.963 BETA (1) = -	-7.860 MACH = .59774	0 * 596	596.43 P	= 2384.9	RN/L	* 4.8734
SECTION (1)BODY FLAP UPPER	DEPENDENT VARIABLE CP					
X/LB 1.0180 1.0460						
PH1 .C0028132709 40.00023575+93						
ALPHA (5) = 11.995 BETA (2) = -	-3.840 MACH = .59774	g = 596	596.43 p	£ 2384.9	RN/L	= 4.8734
SECTION (1)BCDY FLAP UPPER	DEPENDENT VARIABLE CP					
X/LB 1.0180 1.0450						
149 1000 - 2372 - 2555 100.00 - 23.5 - 2555						
ALPHA (5) = 12.000 BETA (3) =	.181 MACH = .59774	0 * 596	596.43 P	= 2384.9	RN/L	= 4.8734
SECTION (1)BODY FLAP UPPER	DEPENDENT VARIABLE CP					
X/LB 1.0180 1.0+50						
PH! .00025102446 40.00022592295						
ALP4A (5) = 12.027 BETA (4) = 1	4.252 MACH = .59774	Q = 596.43	43 P	- 2384.9	RN/L	= 4.8734
SECTION (1)BODY FLAP UPPER	DEPENDENT VARI; BLE CP					
X/LB :.0180 1.0450						
PH1 .0002524263B .c.00023092425						

TABULATED PRESSURE DATA - OAI48 (AMES 11-073-1) DATE 13 FEB 76

AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP UP

(XE8F22)

PAGE 5502

8.324 MACH = .59774 BETA (5) = SECTION (1) BODY FLAP UPPER ALPHA (5) = 12.070

596.43

0

RNZ 2384.9

= 4.8734

DEPENDENT VARIABLE CP

1.0180 1.0450

X/LB

-.2901

FHI .000 40.000

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-	
0A148	
CATA	
PRESSURE	
TABULATED	
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CATE 13

05 AUG 75 1 (XE8F23) (PARAMETRIC DATA AMES 11-073(04148) -1404/B/C/R ORB BODY FLAP UP PEFERENCE DATA

PAGE 5503

2.9021 SPCBRK -L-ELVN : MACH : Š 440.89 888 RUDDER = BDFLAP = R-ELVN = ۵. 598.36 = 1.3924 -3.856 MACH 1075.6800 IN. XO .0000 IN. YO 375.0000 IN. ZO = (1) 47.47 47.47 47.72 SETA 2590.0000 SO.FT. 474.8000 IN. 935.0680 IN.

ALPHA (1) = -3.999

DEPENDENT VARIABLE CP SECTION (1)BODY FLAP USPER - 3547 1.0180 1.0460 -.3:85 -.3+05 PH: - GCG: - CCG: - CCG X/LB

440.83 598.36 a = 1.3924 .190 MACH ລິ λ1≅∺4 (1) = -3.926 SETA

3

DEPENDENT VARIABLE CP SECTION (1)BODY FLAP UPPER 1.0185 1.0450 m),x

440.83 598.36 MACH 4.279 (8) BETA -.3134 -.3180 -.3354 -.3469 1,2H4 (1) = -3.988 1 0 1 0 1 0

CEPENDENT VARIABLE CP

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SECTION (1)BODY FLAP UPPER 1.0180 1.0450 -.3190 -.3209 -.3369 -.3+75 67/X

599.32 - 1.3947 -3.877 MACH * (1) .006 BETA ALPHA : 2) =

DEPENDENT VARIABLE CP

2.9066

RNIL

440.18

1.0180 1.0460

SECTION (1)BODY FLAP UPPER

-.3297

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CATE 13 FEB 76 TABULATED I	PRESSURE DATA - DAIWB (AMES 11-073-1)	11-073-1					PAGE 5504
	ÁMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP UP	/R ORB BOD	T FLAP UP		(XEBF23)		
ALPHA (2) = .011 BETA (2) =	.183 MACH = 1.3947	Ö	= 599.32	ο.	■ 449.18	RN/L	= I2.9066
SECTION (1:80DY FLAP UPPER	DEPENDENT VARIABLE CP						
X/LS 1.0180 1.0460							
PHI .00032123264 .00.00032783381							
ALPHA (2) = .023 BETA (3) =	4.256 MACH * 1.3947	o	= 599.32	۵	= 440.18	RN/L	- 2.9055
SECTION (1)BODY FLAP UPPER	DEPENDENT VARIABLE CP						
X/LB 1.0180 1.0463							
PHI .00031893281 .00.00							
ALPHA (3) = 3.926 BETA (1) *	-3.879 MACH = 1.3946	•	599.62	۵	54.044 ·	RNZ	= 2.9033
SECTION (1)BODY FLAP UFPER	DEPENDENT VARIABLE CP						
X/LB 1.0180 1.0460							
FH: .000326+3326 40.60031973323							
ALPHA (3) = 3.958 BETA (2) =	.183 MACH = 1.3946	0	599.62	۵	54.044 =	FN/L	• 2.9033
SECTION (1) BODY FLAP UPPER	DEPENDENT VARIABLE CP						
X/LB 1.0190 1.0460							
713 3145 - 3193 - 1030 - 3196 - 3193 - 1030 - 3196							
A_PHA (3) = 3.97; BETA (3) =	4.247 MACH = 1.3946	ď	599.62	Q.	54.044 =	ž	= 2.9033
SECTION (1) BODY FLAP UPPER	DEPENDENT VARIABLE CP						
X:L3 1.0180 1.0460							
PHI .00031773227 b.J.Cot32853308							

CATE 13 FEB 76 TABULATED	PRESSURE DATA - DAIMB (AMES 11-073-1)	1-073-1				ш.	PAGE 5	5505
	AMES 11-07310A148) -140A/B/C/R ORB BODY FLAP UP	R ORB BODY FLA	a a a		(XE8F23)			
ALPHA : 4) = 7.933 BETA (1) =	-3.869 MACH = 1.3941	Q = 59	599.51	۵.	= 440.65	N. V.	ni #	2.9593
SECTION (1)BODY FLAP UPPER	DEPENDENT VARIABLE CP							
X/L9 1.0180 1.0450								
PHI .00033643435 40.00033183428								
ALPHA (4) = 7.908 BETA (2) =	.178 MACH = 1.3941	0 # 56	599.51	<u>c</u>	* 440.65	17.KE	ດ ່ #	2.9093
SECTION (1)BODY FLAP UPPER	DEPENDENT VARIABLE CP							
אינ. 1.0190 1.0450 E								
PHI .cca32243299 45.cca32513315								
ALPHA (4) = 7.872 BETA (3) =	4.245 MACH = 1.3941	0 59	599.51	α.	= 4+0.65	RN/L	رن س	2.9093
SECTION (1) BODY FLAP UPPER	DEFENDENT VARIABLE CP							
X/LB 1.5195 1.0460								
PH: - 0003315 - 53623408								
ALFHA (5) = 11.931 BETA (1) =	-3.857 MACH = 1.3942	a 590	599.52	Q.	= 440.89	F87/L	" "	2.9149
SECTION (1)800Y FLAP UPPER	DEPENDENT VARIABLE CP							
X/L8 1.0180 1.0460								
9H5 - 000 - 3446 - 3529 - 00.00 - 3331 - 3272								
ALPHA (5) = (1.859 BETA (2) =	.183 MACH = 1.3942	296	599.92	a .	± 440.89	1/2	તાં #	2.9143
SECTION (1)BODY FLAP UPPER	DEPENDENT VARIABLE CP							
X/LB 1.0180 1.0460								
PHI .50033923455 40.66034163534								

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073-1) PAGE 5516	ORB BODY FLAP UP (XEBF23)	2 = 599.92 P = 440.89 RWL = 2.9149				1 = 599.51 P = 440.65 RN/L = 2.9096				1 = 599.51 P = 440.65 RN/L = 2.9096			399.51 P = 440.55 PN/L = 2.996			
PRESSURE DATA - DAI48 (AMES 11-073-1)	AMES 11-073(04148) -140A/B/C/R ORB BODY FLAP UP	4 258 MACH = 1.3942 Q	DEPENDENT VARIABLE CP			-3.836 MACH = 1.3942 Q	DEPENDENT VARIABLE CP			.184 MACH = 1.3942 0	CEPENDENT VARIABLE CP		4.289 MACH * 1.3942 0	DEPENDENT VARIABLE CP		
DATE 13 FEB 76 TABULATED P		ALPHA (5) = 11.855 BETA (3) =	SECTION (1)800Y FLAP UPPER	X/LS 1.0130 1.0450	PH: .00033943363 -0.00035863634	ALPHA (6) = 15.857 BETA (1) =	SECTION (1)BODY FLAP UPPER	x/19 1.0180 1.0460	PH; .000 = .3670 = .3653 40.000 = .3342 = .3416	ALPHA (5) = 15.871 BETA (2) =	SECTION (1950BY FLAP WAPER	X7LB 1.8189 1.0453	 ALPHA (6) = 15.861 BETA (3) =	SECTION (10BODY FLAP UPPER	X/LB 1.0180 1.0460	PH:

AMES 11-073-1	
PATA - DATES	
TARK ATEN PRESCHIRE RATA - DAT	
ia G)

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-1) PAGE 5507	BODY FLAP UP (NEBF24) (NEBF24)	PARAMETRIC DATA	RUDDER * .030 SPOSPK * .000 BOFLAP * .000 L-ELYN * .000 R-ELYN * .000 MACH * 1.250	■ 599.78 P ★ 551.11 RN/L ★ 3.0086				= 599.78 P = 551.11 RV:L = 3.0096				= 599,78 P = 551,11 RN/L = 3,0086				* 599.96 P * 551.34 PV/L * 3.0225			
TABULATED PRESSURE DATA - DAIHB (AMES 11-073-1	AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP	PETERENCE DATA	000 50.FT. XMRP = 1075.6800 IN. XO 0000 IN. YMRP = .0000 IN. YO 0650 IN. ZMRP = 375.0000 IN. ZO	-3.982 BETA (1) = -3.844 MACH = 1.2469 Q	BODY FLAP UPPER DEPENDENT VARIABLE CP	0183 1.0462	34193507 35353921	-3.977 BETA (2) = .190 MACH = 1.2469 0	COM FLAP UPPER DEPENDENT VARIABLE CP	3. 3. 3450.	34:33459 358737:3	-3.593 BETA (3) * 4.277 MACH = 1.2469 0	COY FLAP UPPER DEPENDENT VARIABLE CP	0188-1-0480	-, 359+ -, 3759	.339 BETA (1) = -3.875 RACH = 1,2468 0	OY FLAP UPPER! DEPENDENT VARIABLE CP	0180 1.0450	773553 433596
DATE 13 FEB 76				ALPHA (1) =	SECTION (1)B	ori etx		् (१) व्यक्ति	8:: 7 %01.035	15.1 B.7X		# (1) VERNIN	SECTION 1 13800Y	8778 B.13	149 1000 - 149 1001 - 159	ALPHA (0) =	ACCELL 1 NOILO35	X/LB 1.0	149 1030 - 040 - 0

BOSS 30Vd	(XEBF24)	40 H		•••		* 551.3+ RV/L * 3.0225				100 H 3/St (100 H				- 550.00 m				F. 10.50 H 3/200 T 11.1000 H			
		Q.				<u>α</u>				Ω.				Ū				ο.			
	DY FLAP UP	= 599.95				= 599.95				* 605.37				≈ 600.37				* BDD.37			
11-073-1	VR ORB BO	ø				Ü				CI				g				o			·
RESSURE DATA - OA148 (AMES 11-073-1)	AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP UP	.130 MACH = 1.2458	DEPENDENT VARIABLE CP			4.251 MACH = 1.2458	DEPENDENT VARIABLE CP			-3.972 MACH = 1.2475	DEPENDENT VARIABLE C>			.182 MACH = 1.2475	DEPENDENT VARIABLE CP			4.245 MACH * 1.2475	DEPENDENT VARIABLE CP		
TABULATED P		(5) =				: (£)				H (1)				(5)				# (%)			
DATE 13 TEG 76 - TA		ATEM 540. = (5) AHC.A	SECTION / 1180DY FLAP UPPER	X/LB 1.0190 1.0450	PH:33923477 347734543570	ALPHA (2) = (344 BETA	SECTION (1)BODY FLAP UPER	09m0:1 0810:1 87/K	0:168.4 000.04 0:000.04 0:000.04	ALPHA (3) # 3.904 BETA	BECTTON (1)BCD FLAGE	X/LB 1.0183 1.0460	9-; .000 - 3525 - 3579 .000 - 3496 - 3577	ALFEA (3) = 3.905 SETA	SECTION (1) BODY FLAP UPPER	2017X	146 - 000 - 1747 - 000 - 18673 - 1860 - 1860 - 000 - 1860	ATER 3.915 = 3.51 AHELA	SECTION / 138CDY FLAP UPPER	X'LB 1.0180 1.0450	74.) .00035153517 .00003586

DATE 13 FEB 76 TABULATED P	PRESSURE DATA - CAI48 (AMES 11-073-1)	1-073-1	•			_	PAGE 5509	60
	AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP UP	R ORB BO	DY FLAP UP		(XE8F24)			
ALPHA (4) = 7.877 BETA (1) =	-3.867 MACH = 1.2474	G	≥ 600.25	۵.	551.11	RN/L	r w	3.0132
SECTION (1) BODY FLAP UPPER	DEPENDENT VARIABLE CP		•					
X/L9 1.0150 1.0450								
PHI .00036953742 40.00036073733								
ALPHA : 4) = 7.882 BETA 1.2) =	.178 MACF = 1.2474	o	≥ 600.25	<u>a</u> .	= 551.11	RN/L	# *	3.0132
SECTION (1) BODY FLAP UPPER	DEPENDENT VARIABLE CP							
X/28 1.6193 1.6463								
149 . 1355 3555 000. 6736 1735 000.04								
ALDHA (4) = 7.892 BETA (3) =	4.244 MACH = 1.2474	o	= 600.25	۵	5 51.11	RN/L	м ж	3.0132
SECTION (1) BODY FLAP UPPER	DEPENDENT VARIABLE CP							
x/LB 1.9180 1.0460								
149 1355 - 3586 - 3550 140.603.04								
жена (5) = 11.916 вета (1) =	-3.850 MACH = 1.2463	o	82.003	α .	* 552.05	RN/L	* 33.	3.0150
SECTION (1) BODY FLAP UPPER	DEPENDENT VAR! ABLE CP							
X/LB 1.0163 1.0+63		•						
Hei 1928 - 3759 - 3926 1930:04 - 3729 - 3506								
A_944 (5) = 11.928 SETA (2) =	.186 MACH = 1.2453	a	= 500.28	٥.	≈ 552.05	RN/L	w W	3.0150
SECTION E 11800Y FLAP UPPER	DEPENDENT VARIABLE CP							
x/LB 1.0180 1.0460								ι
PHI .05535623757 .05037783925								

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= 3.0160 PAGE 5510 RN/L (XEBF24) 552.05 AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP UP = 600.28 TABULATED PRESSURE DATA - DAI48 (AMES 11-073-1) 4.256 MACH = 1.2463 DEPENDENT VARIABLE CP BETA (3) =SECTION (1:80DY FLAP UPPER -.3871 1.0180 1.0450 ALPHA (5) = 11.922 -.3842 CATE 13 FEB 76 PH1 .000 40.000 X/LB

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1.4

PAGE 5511	(XEBF25) (05 AUG 75)	PARAMETRIC DATA	RUDDER = .000 SPDBRK = .000 BDFLAP = .000 L-ELVN = .000 R-ELVN = .000 MACH = 1.100	P = 711.43 RN/L = 3.1881				P = 711.43 RN/L = 3.1881				P = 711.43 RN/L = 3.1881				P = 710.01 RN/L = 3.1813			
1-073-1)	-140A/B/C/R ORB BODY FLAP UP		288 <u>5</u>	0 = 500.10				a = 600.10				0 = 600.10				0 = 599.15			
PRESSURE DATA - DAIHB (AMES 11-073-1	ANES 11-073(0A148) -140A/B/C/		1076.6800 IN. XO .0000 IN. YO 375.0000 IN. ZO	-3.842 MACH = 1.0978	DEPENDENT VARIABLE CP			.191 MACH = 1.0978	DEPENDENT VARIABLE CP			4.273 MACH = 1.0978	DEPENDENT VARIABLE CP			-3.867 MACH = 1.0980	DEPENDENT VARIABLE CP		
DATE 13 FEB 76 TABULATED		REFERENCE DATA	SPEF = 2590.0000 SO.FT. XMRP = 474.8000 IN. YMRP = 536.0880 IN. ZMRP = 5030.0300 IN.	ALPHA (1) = -3.988 BETA (1) =	SECTION (1)800Y FLAP UPPER	X/L9 1.0190 1.0460	PHI .00038123911 90.00039973997	ALPHA (1' = -3.982 BETA (2) =	SECTION (1:BODY FLAP UPPER	X/LB 1.0180 1.0460	0162 484 000.04	ALPHA (1) = -3.997 BETA (3) =	SECTION (1)BODY FLAP UPPER	X/LB 1.0180 1.0450	FH1 .00239323979 +0.06038583958	ALPHA (2) = .056 BETA (1) =	SECTION (1)300Y FLAP UPPER	X/LB 1.0:30 1.0450	PHI .00035943723 40.00037303763

	APIE	2 11-0	73(0A14	8) -1	AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP UP	R ORB BC	אַ אַ	LAP UP		IXE	(XE8F25)			
ALPHA (2) = .058 BETA (2) =	11	181	MACH	"	1.0980	ø	*	599.15	С.	= 710.01		FN/L .	M H	3.1813
SECTION (1) BODY FLAP UPPER		N3430	DEPENDENT VARIABLE CP	RIABL	E CP									
X/LB 1.0180 1.0460														
PH1 .00236693778 .0.00036543778														
ALPHA (2) * .056 BETA (3) *	<i>s</i>	4.249	MACH	-	1.0980	0		599.15	۵.	- 710.01		RN/L -		3.1813
SECTION (1)BODY FLAP UPPER		N3G3O	DEPENDENT VARIABLE CP	RIABL	E CP									
X/LB 1.0150 1.0460								•						
PH1 .30037573840 %0.00036623530														
ALPH: (3) = 3.948 BETA (1) =		-3.871	MACH	#	1.0978	ø		539.38	a	719.48		RN/L =		3.1840
SECTION (1) BODY FLAP UPPER		CEPEN	DEPENDENT VARIABLE CP	RIABLI	E CP									
X/LB 1.0180 1.0460														
PHI .00037753980 40.00037273939														
ALPHA (3) = 3.948 BETA (2) =		1771.	MACH		1.0978	a		599.38	.	710.48	19 3N/L	٠	m,	3.1840
SECTION (1)800: FLAP UPPER		DEPEN	DEPENDENT VARIABLE CP	RIABLI	E CP									
X/LB 1.0195 1.0460												•		
PHI .0003:053815 40.00036513812														
ALPHA (3) = 3.950 9ETA (3) =		4.239	MACH	-	1.0978	0	gri M	599.38	٥	710.48	B RN/L	٠ •	m	3.1640
SECTION (1)BODY FLAP UPPER		DEPEN	DEPENDENT VARIABLE CP	N ABL	G 3									
X/LB 1.0180 1.0460														
PHI .CCC37823834 +0.CCC3743897														

PAGE 5512

TABULATED PRESSURE DATA - DAING (AMES 11-073-1)

DATE 13 FEB 76

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And the state of t

	7310A14E	R ORB BODY	FLAP UP	
ALPHA (4) = 7.932 BETA (1) =	-3.857 MACH = 1.0986	*	599.84	
SECTION (1)BOOY FLAP UPPER	DEPENDENT VARIABLE CP			
X7LS 1.0180 1.0450				
PH1 .00039043977 40.00038343909				
ALPHA (4) = 7.938 BETA (2) =	.185 MACH = 1.0986		599.84	
SECTION (1)BODY FLAP UPPER	DEPENDENT VARIABLE CP			
X/LB 1.0190 1.0450				
.0cc37503975 +0.0cc37523840				
ALPHA (4) = 7.937 BETA (3) =	4.238 MACH = 1.0986	"	599.84	_
SECTION (TIBODY FLAP UPPER	DEPENDENT VARIABLE CP			•
1.0180 :.0460				
6804'- 0588'- 000'04 4988'- 0588'- 000' 14d				
ALPH4 (5) = 11.97C BETA (1) =	-3.845 MACH = 1.0981	•	599.46	
SECTION (1)800Y FLAP UPPER	DEPENDENT VARIABLE CP			
1.0183 1.3453				
PH1 .00039383949 .40.00039993997				

= 3.1812

RN/L

710.01

= 3.1817

RNA

710.25

3.1817

PN-

= 710.25

599.46

O

.187 MACH = 1.0981 DEPENDENT VARIABLE CP

BETA (2) =

SECTION (1:800Y FLAP UPPER

ALPHA (5) = 11.981

1.0180 1.0450

-, 4026 -, 4023

-. 39±0 -. ±000

. **650** ₽0.550

3.1812

RN/L

(XE8F25) 710.01

PAGE 5513

TABULATED PRESSURE DATA - DAIYB (AMES 11-073-1)

DATE 13 FEB 75

3.1812

Z Z

710.01

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TABULATED PRESSURE DATA - DAI48 (AMES 11-073-1) DATE 13 FEB 76

AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP UP

o 4.250 MACH = 1.0981

RN/L = 3.1817

= 710.25

(XEBF25)

PAGE 5514

DEPENDENT VARIABLE CP ALPHA (5) = (1.975 BETA (3) = SECTION (1)BODY FLAP UPPER

1.3180 1.0460 -.4050 -.4124 -.4079 -.4110 PHI . 900 +0. 800

SPDBRK = L-ELVN = MACH = PARAMETRIC DATA (XE8F26) **=** 1059.2 1059.2 1059.2 888 RUDDEK = BOFLAP = R-ELVN = ۵. ANES 11-073(04148) -1464/8/C/R ORB BODY FLAP UP 599.79 599.79 599.79 O 04668. = 04668. ≈ 0+668. ■ DEPENDENT VARIABLE CP DEPENDENT VARIABLE CP DEPENDENT VARIABLE CP -3.845 MACH = 1076.6800 IN. XO = .0000 IN. YO = 375.0000 IN. ZO .190 MACH MACH 4.275 ALPHA (11 # -3.996 BETA (1) = (2) 33 YMRP YMRP ZMRP BETA 9E 1A REFERENCE DATA SECTION (1) BCCY FLAP UPPER SECTION (1) BODY FLAP UPPER SECTION (1)800Y FLAP UPPER 2690.0000 SQ.FT. 474.8000 IN. 935.0680 IN. +.2330 -.2397 +.2354 -.2414 +.2341 -.2522 +.2379 -.2615 +,2336 +,2493 +,2516 +,2592 1.0180 1.0460 1.0180 1.0469 1.1180 1.0450 ALPHA (11 # -3.977 ALPHA (11 = -3.985 40.900 40.900 . 333 40.633 40.00 00.00 00.00 SREF = CHEF = EREF = SCALE =

87/X T G

Ha

X/1/8

3.5659

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05 AUG 75) PAGE 5515

TABULATED PRESSURE DATA - DATHB (AMES 11-073-1)

DATE 13 FEB 76

-.2359 900-40-030

3.5551

Z Z

1059.7

۵.

599.18

O

= .85877

-3.859 MACH

(;)

EETA

ALPH4 (2) = .061

X7.B

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SECTION (1) BODY FLAP UPPER

1.0183 1.6460

X/LB

DEPENDENT VARIABLE CP

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			• • • •)
	AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP UP	7.R 088	BODY FLAP UP		(XE8F26)	9		
NEHA : 2) = .057 BETA (2)	= .89877	0	= 599.18	α.	- 1059.7	RN/L	H W)	3.5651
SECTION (1:30DY FLAP UPPER	DEPENDENT VARIABLE CP							
CLB 1.3180 1.0460								
PH1 .00022282224 .0.00022522371								
LPHA (2) = .053 BETA (3)	= 4.252 MACH = .89877	a	≈ 599.18	۵	= 1059.7	1	3.5651	55.
SECTION (1)BODY FLAP UPPER	DEPENDENT VARIABLE CP							j
1.0190 1.0460								
######################################								
LPHA (3) = 3.954 BETA (1)	= -3.877 MACH = .89787	G	₹ 598.42	n.	= 1050.5		# 3,557.	2
SECTION : 19800V FLAD UPPER	DEPENDENT VARIABLE CP					!		
/EB 1.0180 1.0450								
PH1 .C352256C397 +3.00022372247								
PHA (3) = 3.955 BETA (2)	± .185 MACH = .89787	o	₹ 598.42	۵	= 1060.5	PN/	* 3,555	Ş.
SECTION (1) SCOY FLAP UPPER	DEPENDENT VARIABLE ::							ł
.LB								
183.5. 6905 000.04 75:5 6905 000.04								
P=4 (3) = 3.953 BETA (3)	= 4.243 MACH = .89787	ø	₹ 598.42	۵	1060.5	Ž.	3,5552	ĵ.
SECTION (1:835Y FLAP UPPER	DEPENDENT VARIABLE CP							}
EB 1.0180 1.0460								
PHI .00021172189 .40.00022352350								

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TABULATED PRESSURE DATA - DA148 (AMES 11-073-1)

DATE 13 FEB 76

CATE 13 FEB 76 TABULATED PRE	PRESSURE DATA - OAIUB (AMES 11-073-1) AMES 11-073(OAIUR) -140A/R/C/R ORR DONY FLAD ID	11-073-1	01				PAGE 5517
	MES [1-0/3(DA)48) -1464/B/C	1	SOUY FLAP UP		(XEBF26)	Ω	
ALPHA (4) % 7,928 REIA (1) %	-3.870 MACH = .89930	ø	= 600.20	۵	= 1060.2	RN/L	= 3.5747
SECTION (1) BODY FLAP UPPER	DEPENCENT VARIABLE CP						
09+0*1 0810*1 BT/X							
FH1 							
ALPHA (4) = 7.938 BETA (2) =	.179 MACH = .89930	a	≥ 600.20	۵	= 1060.2	RN/L	= 3.5747
SECTION (1) BODY FLAP UPPER	DEPENDENT VARIABLE CP						
X/LB 1.0150 1.0460							
#####################################							
ALPHA (4) = 7.033 SETA (3) =	4.243 MACH = .89930	G	≖ 600.20	Q.	= 1050.2	RN/L	= 3.5747
SECTION () BODY FLAR UPPER	DEPENDENT VARIABLE CP						
X/L8 1.0190 1.0480							
144 125 7253 200.04 1955 0353 200.04							
ALFHA (5) = 11.953 BETA (1) = -	-3.854 MACH = .89857	o	= 599,22	۵	= 1060.2	RN/L	= 3.5673
SECTION (1) BODY FLAP UPPER	DEPENDENT VARIABLE CP						
X/LB 1.0180 1.0960							
793 - 7833 - 783 193 - 7833 - 783 193 003 - 7834							
Alpub (5) = (1,985 BETA (2) =	.193 МАСН ≈ .83857	o	= 599.22	۵	= 1060.2	RN/L	= 3.5673
SECTION (1)BODY FLAP UPPER	DEPENDENT VARIABLE CP						
x/LB 1.0180 1.0+50							
7745 8455 000. 0745 8455 000.							

40.000

TABULATED PRESSURE DATA - 0A148 (AMES 11-073-1) C47E 13 FEB 76

AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP UP

o 4.257 MACH = .89857 9ETA (3) = ALPHA (5) = 11.949

= 599.22 DEPENDENT VARIABLE CP

> SECTION (11800Y FLAP UPPER 1.0:80 1.0460 -.2434 -.2436 -.2429 -.2557 941.000 40.000 87.8

(XEBF26)

PAGE 5518

1060.2

RN/L = 3.5573

7"	

5519	75)		000	# B#B#				4.8464				¥. 848				. 10 ± 00 ± 00 ± 00 ± 00 ± 00 ± 00 ± 00			
PAGE	CS AUG							*				Ħ							
	~	DATA	SPOBRK = L-ELVN = MACH =	RN/L				1 N				1/NG				1/2			
	(XE8F27)	PARAMETRIC	000.	336.3				2385.3				2386.3				2386.3			
		PA						H				11							
			RUDDER = BDFLAP = R-ELVN =	۵				Q.				a				٥.			
	5			594.56				594.55				594.56				.56			
	F.			29				594				59				594.56			
<u>-</u>	BODY			H				H				**							
11-073-	C/R ORB			ø				ø				o				O			
- CAI48 (AMES 11-073-1	+8) -1404/8/C/R ORB BODY FLAP UP			. 59658	RIABLE CP			= .59658	RIABLE CP			= .59558	RIABLE CP			59658	RIABLE CP		
DATA - (AMES 11-073(0A148)		IN. X0 IN. Y0	MACH	DEPENDENT VARIABLE			MACH	DEPENDENT VARIABLE			MACH	DEPENDENT VARIABLE			MACH	DEPENDENT VARIABLE		
PRESSURE DATA	AMES 11		.076.6850 .0000 375.0000	-7.853	DEPR			-3.841	3430			.187	3630			4.263	3430		
			th II II	=							-	33 13				# (+			
TABULATED			78.22 78.27 78.72	<i>ــ</i>				U				_ _				-			
		DATA	<u>.</u>	BETA	PPER	g	ယ္ က	BETA	eige ein	C)	00 <u>+</u>	35.7	Radda C	to	ru r-	BETA	SPREA	63	ເດ ເປ
		E	u. G 2 2 V, -4 22	385	FLAP UPPER	1.0460	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ຜູ	o _t	1.04€	1.241B 1.2895.1	m F	0476	1.0450	2385 2437	527	14 10 13	1.5460	2632 2632
		REFERENCE	2690.0999 474.6090 935.0880 936.0880	1 20		0183	00 to 00	10 0)	u >000	00	175	n 10	BCCY F	018G	25.53 25.53	Mi Mi	BODY FI	83	(0 C) (0 A) (1 A)
E) 75				H	1)BODY	⇔	iŭ iŭ	•1	=	<u>:</u>	י י	Ħ	• =	9		#1		Ċ	<u></u>
14 16 (9			11 6 6 11	1	NO.			, s . • - • • - •	1 201		000	***	3		80 80 00	**	01102		999
11 17 ()			6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6	Aria T	SECT	ë N	ğ 'ç	THO TH	SECTION	a X/X	g g	E BE	SECTION	e7/X	a ç	ALPHA	SECT	X/1.59	PH1 . 980 . 920 . 920
										ORI OF	GINAI POOR	QI P	AG JA1		S Y				

DaTE 13 FEB 75 TABULATED PRESSURE DATA - 0A148 (AMES 11-073-1)	073-1)					PAGE 5520	
AMES 11-07310A148) -140A/B/C/R ORB BODY FLAP UP	ORB BODY FLAP	e _D		(XE8F27)	ĵ,		
ALPHA (1) = -3,972 BETA (5) = 8.340 MACH * .59658 0	3 = 594.56	56	Q.	= 2396.3	1/NG	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	Į,
SECTION () BODY FLAP UPPER DEPENDENT VARIABLE CP							
X/LB 1.0:90 1.0460							
PH: 2160 2300 							
ALPHA (2) = .056 BETA (1) = -7.886 MACH = .59638 0	1 594.21		Q	• 2386.5	1/8	¥.9456	
SECTION (1)800Y TAP UPPER DEPENDENT VARIABLE CP							
X/LB :.0:95 !.0460							
######################################							
ALPHA (2) = .055 BETA (2) = -3.860 MACH (* .59638 Q	. 594.21		۵	≠ 2386.5	7/24	* 8-4-8-4-8-4-8-4-8-4-8-4-8-4-8-4-8-4-8-4	τΌ
SECTION : 138037 FLAP UPPER							
X/LB 1.0180 1.0450	·						
PH; .00 2139 - 24 53 %.000.04							
ALPHA (2) = .070 BETA (3) = .184 MACH = .59638 0	* 594.21		a .	= 2386.5	1/36	# .B-55	ŧΩ
SECTION (1) BCDY FLAP UPPER DPENDENT VARIABLE CP							ı
x/LB 1.0380 1.0450							
1.40 1.005 - 1.8051 - 1.8271 1.000 - 1.8051 - 1.805154							
0 8538 = 1540 H247 MACH = 159638 0	= 594.21	<u>.</u>		= 2386.5	Ě	95 ± 1	ıo
SECTION : : SCOY FLAP UPPER							
X/LB 1.0180 1.0450							
PH! #525 1445 300.C4							

TABULATED PR	PRESSURE DATA - OAIHB (AMES 11-073-1)	1-073-1				,	540E 5581
	AMES 11-073(0/148) -140A/B/C/R ORB BODY FLAP UP	A CRB BODY FL	AP UP		(XE9627)	.	
ALP 4 1 2 3 500 851A (5)	8.305 MACH = .59538	ι υ	594.21	Q.	• 2386.5	:1 &	ar Service Ser
SECTION 1 1:BODY FLAP UPPER	DEPENDENT VARIABLE CP						
Sec. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.							
1Hd - 000 - 2253 - 18161 - 2253 - 2555 - 2555 - 650104							
ALPHA : 3: = 3.957 BETA (1) =	-7.887 MACH = .59608	ش * ت	593.49	۵.	# 2385.D	ž.	# 4.8432
SECTION (1) BODY FLAP UPPER	DEPENDENT VARIABLE CP						
C0400.1 00:0:1							
1380 - 0968 - 000							,
ALPHA (3) = 3.98; BETA (2) =	-3.853 M4CH = .59509	, 150	593.49	Ω.	= 2386.0	Ě	(1) B. 3
edeco etta ACCBAL 1 MOLLOGS	DEPENDENT VARIABLE CP						
X/_B 1.0183 1.0483							
500.04 500.04 500.04 500.04							
ALREA : 33 = 3.981 BETA (3) =	.188 MACH = .59508	- D	553.49	Ω.	= 2385.0	É	: 1. 9±33 1. ±
SECTION (1:800 / JAP UPPER	DEPENDENT VARIABLE CP						
X/JB 1.0183 1.0463							
8608'- 0608'- 000'05 8608'- 000'- 000'							
E (+) ATB 879 ETA (+) AFP	4.237 MACH = .59508	- 120 - 120	593.49	a.	= 2385.5	1/8	# + .B436
SECTION : 1:BODY FLAP UPPER	DEPENDENT VARIABLE CP						
X/18 1.0380 1.0480							
00 11 0 0 11 0 11 0 11 0 11 0 11 0 11							

CATE 13 FEB 7C TABULATED PRESSURE DATA - DAIMB (AMES 11-073-1)		स्टिस्ट स्टिस्स
AMES 11-073(0A148) -1904/0/R ORB BODY FLIP UP	- (u l.; 0)	
ALPHA (3) * 3.980 EETA (5) * 8.292 MACH = .59508 G = 593.49 P * 2335	1 NE 2.8	# T 58 35
SECTION (1):800Y FLAP UPPER DEPENDENT VARIABLE OF		
X:28 1.0186 1.0460		ı
0455 4745 550.04		
ALP4A (4) = 7.936 8ETA (1) = -7.885 MACH = .59590 Q = 593.13 P = 2385.	i i	可にする。 ・ ・ ・ ・
SECTION . ! BODY FLAP UPPER DEPENDENT VARIABLE CP		
X/L9 1.019C 1.0463		
1元d 1.dd 1.d		
ALP44 (4) = 7.944 BETA (2) = -3.857 MACH = .59590 Q = 593.13 P = 20	7 X6 1.888.5	(i)
SECTION (1) BODY FLAP UPPER		
X/LB 1.0160 1.0+50		
120 - 2013 - 2014 2415 - 2015		
ALPHA (9) = 8.095 BITA (3) = .182 MACH = .59590 Q = 591.13 P = 23	2385.0 PV .	1
SECTION (11503Y FLAP GPSER) DEPENDENT VARIABLE OF		
55-0:1 08 10:1 6:7X		
## 1857 1851 COD. On Code Code Code Code Code Code Code Code		
ALPHA (4) = 8.043 857A (4) = 4.239 MACH = .59590 0 = 593.13 P = 23	2385.0 PN.	(h) (u) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d
SECTION (11800Y FLAP UPPER DEPENDENT VARIABLE CP		
29-0.1 0810.1 E.1X		
ES18 1852 1863 1878 18		

DATE 13 FEB 75 TABULATED) PRESSURE DATA - 04148 (AMES 11-073-1) AMES 11-073(04148) -1404/B/C/R ORB BODY FLAP UP	11-073-1) /R ORB BODY	FLAP UP		(XEBEST)		PAGE 5523	
ALPHA (4) = 8.0% BETA (5) =				((
SECTION (1) BODY FLAP UPPER	NDENT VARIAB	, ,	255.13	1 .	= 2386.0	RN/L	# #.8429	
X/EB 1.0;50 1.9460								
PHI .00021042359 40.00023582458								
ALPHA (5) = 11.929 BETA (1) =	-7.850 MACH = .59646	0	594 23	٥	3020	į		
SECTION (1) BCDY FLAP UPPER	NDENT VARIAB					ra/L	# #. #.	
X/LB 1.0186 1.0460								
1Ha - 000. - 25-9 - 2555. - 25:5:- 91:5:- 1Ha								
ALPHA 51 = 1:.923 BETA (2) =	-3.836 MACH = .59646		594, 33	۵	* 202 <i>C</i>	ă		
SECTION (17800Y FLAP UPPER	DEPENDENT VARIABLE CP						. t. 1.08	
X/LB 1 0:80 1.6450								
PHI C302:082+3+ b0.9032:0932:192								
ALPHA (5) = 11.936 BETA (3) =	.181 MACH = .59646	.!!	504 22	٥	1 90CC	ä		
SECTION (1)300Y FLAP UPPER	ARIAB		55.55	L	# E380.3	7 Y	# 4.8458	
X/LB 1.0:80 1.0%50								
PH1, .03020352165 40.00021222222								
ALPH4 (5) = 11.330 SETA (4) =	4.251 MACH = .59646	8	594, 33	Ω	# 2308 A	200	ć 	
SECTION (1:8037 FLAP UPPER	DEF THDENT VARIABLE CP						1.0408	
X/LB 1.9180 1.0460								
PHI .00025422281 40.00037892452								

; 7.m.

177.2

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(XE8F27) 2386.5 = 594.33 AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP UP TABULATED PRESSURE DATA - 0A148 (AMES 11-073-1) o 8.317 MACH = .5964S BETA (5) = 4.PHA (5) = 11.920 DATE 13 FEB 76

DEPE'DENT VARIABLE CP

SECTION (1)300Y FLAP UPPER

1.0180 1.0460

X/LB

-.2323 -.2496 -.2427 -.2614

PH1 .000 40.000

PAGE 5524

1/84

♣ 4.8458

E 5525	(5/ 9		35.000 10.000 1.400	2.9214				2.9214				구.9214				2.9212			
PAGE	DS AUG		# # # ~ 7	٠				• لب											
	£	CATA	SPDBRK L-ELVN MACH	RN/L				RN/L				RN/L				J/NG			
	(XE8F28)	PARAMETR1C	.300	441.59				441.59				441.59				441.59			
	_	PARAM	-10.000 16.300 .000	i T				3 3 1				1				111			
			RUDDER = BOFLAP = R-ELVN =	۵				Q.				o.				α.			
	LAP UP			55.58				599.58				599.58				600.11			
•	300Y F			Ħ				11				#				H			
11-073-1	JR ORB E			o				ø				o				o			
- 0A148 (AMES 11-073-1	8) -140A/B/C/R ORB BODY FLAP UP			= 1.3927	RIABLE CP			- 1.3927	PIABLE CP			= 1.3927	PLABLE CP			± 1.3934	TIABLE CP		
	73(0A14		IN. XO IN. YO IN. ZO	MACH	SEPENDENT VARIABLE			MACH	DEPENDENT VARIABLE			MACH	DEPENDENT VARIABLE			TACH TO	DEPENDENT VARIABLE		
PRESSURE DATA	AMES 11-073(0A148)		1076.6800 .0000 375.0000	-3.855	SEPE			. 185	1363C			4.270	NEPEN			-3.876	DEPEN		
			3 10	# []				11				"							
TABULATED			4577 4577 4577	_				(i)				(3)				_			
·		DATA	÷	BETA	UPPER	60	! '.' 55	BETA	#3d∈೧	60	3207 380!	BETA	UPPER	50	35	BETA	CPPER	29	88 22
		PEFERENCE	8000 8 2 2 7	3.978	FLAP	1.0460	- 3271	3.97!	FI, AP	1.0460	1 1	978	FLAP UPPER	1.0450	3321	369	FLAP UPPER	1.0460	3288 3722
٦. ق		ij.	2890.0000 474.8000 935.0890	- 3	13BODY FLAP UPPER	1.0180	3323 3502	£3	17B0DY	1.0180	3223 3369	1.	1 1B00Y	1.0380	3324 3627		YCOE (I	1.0183	3564
3 FEB			ர் சிற் மே சாசா	- 11	•			1 :	1 NO1.	-	500	= ::	_	•		# (₹ <u>1</u>	•	••	
CATE 1			SPET SPET SOEF SOALE	A. Pua	SECTION	X.LB	149 000. 00.04	कृत्य । स	SECT	m -1 ×	H 14	ALPHA (SECTION	87.78	PHI .088 .038	AHO TA	SECTION	X/LB	PHI .060 +3.000
											O1 O2	RIG	INA POO	ΑĽ	PAGE QUALI	18			

GATE 13 FEB 10 TABULATED PR	?	11-073-10)					PAGE 5526
	AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP UP	/R ORB BODY F	LAP UP		(XE8F28)		16
ALPHA (2) =045 BETA (2) =	.182 MACH = 1.3934	ii	600.11	۵.	= 441.59	RN/L	₹ 2.9212
SECTION (1) BODY FLAP UPPER	DEPENDENT VARIABLE CP						
X/LB 1.0180 1.0460							
PHI .00033333373 40.00035583697							
ALPHA (2) =049 BETA (3) =	4.247 MACH = 1.3934		600.11	۵.	= 441.59	SN/L	- 2.9212
SECTION (1) BODY FLAP UPPER	DEPENDENT VARIABLE CP						
X/LS 1.0190 1.0460							
1Hd 05-2-2-2-200 1-200-2-3-3589							
ALFHA (3) = 3.888 BETA (1) =	-3.879 MACH = 1.3920	# Ø	599.57	۵	= 442.06	RN/L	₹ 2.9184
SECTION (1) SODY FLAP UPPER	DEPENDENT VARIABLE CP						
X/4B: 1.2150 1.0460							
PHI .00033883431 40.00035893696							
ALPHA (3) = 3.892 BETA (2) =	.179 MACH = 1.3920		599.57	۵.	= 442.06	RN/L	- 2.9184
SECTION (1:805Y FLAP UPPER	DEPENDENT VARIABLE CP	•					
X/LB :.0180 1.0450							
PHI .00034303510 .0.60034743500							
A. D.A. (3) = 3.895 BETA (3) =	4.241 MACH = 1.3920	£ .	599.57	۵	= 442.06	RN/L	* 2.9184
SECTION (1:80DY FLAP UPPER	DEPENDENT VARIABLE CP						
x/LB 1.018C 1.0460							
PHI .03634203502 +0.00035573575							

•	•	•	R
o.	a .	o	a .
599.57	599.57	599, 66	* 599.66
o	o	o	o
.176 MACH = 1.3916 DEPENDENT VARIABLE CP	4,238 MACH * 1.3916 DEPENDENT VARIABLE CP	-3.856 MACH = 1.3913 DEPENDENT VARIABLE CP	DEPENDENT VARIABLE CP

BETA

ALPHA (5) = 11,853

-,35574 -,35555 -,3423 -,3503

40.000

<u>.</u>

SECTION (1)800Y FLAP UPPER

1.0180 1.0483

X/LB

-.3508 -.3432 -.371+ +.3919

- 3**80** - 0 3**83**

H

2.9180

RN/L

442.53

2.9180

Š

442.53

ີດ ~

BETA

ALPHA (5) = 11.873

SECTION 1 11800Y FLAP UPPER

1.0180 1.0460

K/LB

-.3525 -.3538

PH1 .000 40.000

Y

2.9184

RN./L

599.57

0

-3.870 MACH = 1.3916 DEPENDENT VARIABLE CP

BETA (1) =

Ω±0. t`

ALPHA (41) =

DATE 13 FEB 76

SECTION (1) BODY FLAP UPPER

1.0189 1.0460

e l X -.3453 -.3484 -.3649 -.3640

40.380

i

(XEBF2B)

AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP UP

TABULATED PRESSURE DATA - 0A148 (AMES 11-073-1)

PAGE 5527

2.918¥

Z Z

442.30

<u>.</u>

BETA

ALPHA (4) = 7.946

SECTION (1)BCDY FLAP UPPER

1.0190 1.0450

X/LB

2.9184

P. P.

4:42.30

ii M

GETA

£. 50±0

ALPHA (4) =

-.3407 -.3426 -.3587 -.3669

SECTION (1)300Y FLAP UPPER

1.0:85 1.0+50

ети

DAFE 13 FEB 76 TABULATED		R DA	[A - 0	PRESSURE DATA - GAI48 (AMES 11-073-1)	3 11-07	3-1)					u.	PAGE 5528	80
	AMES 1	1-07	310A14	AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP UP	C/R ORE	3 BODY	FLAP UP			(XEBF28)			
ALPHA (5) = 11.876 BETA (3) =	= 4.25	99	1ACH	4.256 MACH = 1.3913	a	Ħ	599.66	۵	•	442.53	RN/L	= 2.9180	180
SECTION (1:800Y FLAP UPPER	30	PENDE	NT VA	DEPENDENT VARIABLE CP									
X/18 1.6190 1.0450													
PH1 .00038553848 40.00034203502													
ALPHA (6) = 15.854 BETA (1) =	= -3.83		ACH	-3.831 MACH = 1.3903	ø		599.44	۵	۲,	. 443.00	RY.	= 2.9205	505
SECTION (1)BODY FLAP UPPER	OE	PENDE	NT VA	DEPENDENT VARIABLE CP									
X/L8 1.2:90 1.0450													
PHI .00037323655 40.00037353878			, i										
ALPHA (5) = 15.858	r1. =	ω	ACH	.178 MACH * 1.3903	ø		599.44	٠.		443.30	RN	= 2.9205	505
SECTION (1'BODY FLAP UPPER	DE!	PENDE	NT VA	DEPENDENT VARIABLE CP									
X/LB :.3:80 :.0450													
PHI													
ALPHA (6) = 15.859 BETA (3) =	- 4.283	Σ	ACH	MACH = 1.3903	G		599.44	۵		443.00	RN/L	= 2.9206	90
SECTION (1:900Y FLAP UPPFR	130	PENDE	NT VAF	DEPENDENT VARIABLE CP									
X/LB :.C:83 :.0460													
РН1 . CCG 353Б 3991 40. CGG 568C 3881													

The property of the property o

. PAGE 5529	BODY FLAP UP (XEBF29) (05 AUG 75)	PARAMETRIC DATA	RUDDER = -10.000 SPDBRK = 35.000 BDFLAP = 16.300 L-ELVN = 10.000 R-ELVN = .000 MACH = 1.250	* 599.58 P * 552.51 RN/L * 3.0225				= 599.58 P * 552.51 RN/L * 3.0225				* 599,59 P * 552,51 RN/L * 3.0225				= 599.80 P = 552.04 RN/L * 3.0192			
11-073-1	I'R ORB E			ø				O				0				G			
PRESSURE DATA - DAIMB (AMES 11-073-1)	AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP UP		1976-6990 IN. XO .GOCO IN. YO 375.GOGO IN. ZO	-3.845 MACH = 1.2451	CEPENDENT VARIABLE CP			.185 MACH = 131	DEPENDENT VARIABLE CP			4.269 MACH = 1.2451	DEPENDENT VARIABLE CP			-3.871 PACH = 1.2459	DEPENDENT VARIABLE CP		
76 TABULATED		REFERENCE DATA	2690.0000 50.FT. XMRP = 1 474.8000 IN. YMRP = 935.C690 IN. ZMRP = 2.0300	-3.985 BETA (1) =	118UCY FLAP UPPER	1.0183 1.0460	35443598 3937159	-3.967 BETA (2) =	11BODT FLAP UPPER	1.0183 1.0460	35093507 46321514	-3.974 BETA (3) =	1)800Y FLAP UPPER	09-01 08:01	.37293691 .4.654142	035 BETA (1) =	138SDY FLAG UPPER	1.0180 1.0450	36743757 39154047
DATE 13 FEB '			S9EF = 259 LAEF = 479 BAEF = 933 SOALE = 933	ALPHA (1) =	SECTION (!	אירם ו	1Hd .000 .000	ALPHA (1) =	SECTION (1	X/LB 1.	PH1 2000 46.000	ALPHA 11 =	SECTION DI	ELYX	PH1 .000 - .40.033	ALPHA (2) =	SECTION (1)	X/: 8	PHI .000. .+0.000.

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DATE 13 FEB 76 TABULATED F	PRESSURE DATA - DAIMB (AMES 11-073-1)	11-073-1	•				PAGE 5530
	AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP UP	'R ORB E	SODY FLAP UP		(XE8F29)	ĝ.	
A-PHA (2) = LZ7 BETA (2) =	.182 MACH = 1.2459	o	= 599.80	œ	• 552.04	RN/L	3.0192
SECTION (1)BODY FLAP UPPER	DEPENDENT VARIABLE CP						
X/LB 1.0180 1.0460							
PHI .000. .000. .000. .000. .000.							
AL SHA (2) =032 BETA (3) =	4.246 MACH = 1.2459	ø	= 599.80	۵	■ 552.04	RN/L	3.0192
SECTION (1)BODY FLAP UPPER	DEPENDENT VARIABLE CP						
X/LB 1.6180 1.0450							
1Hd .000 - 3765 - 3833 .000.04							
ALPHA (3) = 3.922 BETA (1) =	-3.869 MACH = 1.2454	0	= 599.82	a.	552.5 1	RN/L	# 3.023#
SECTION (1)BODY FLAP UPPER	DEPENDENT VAPIABLE CP						
X/LB 1.0;80 1.0+60							
PH; .C303808030. UD.G0035834635							
ALPHA (3) = 3.922 BETA (2) =	.180 MACH = 1.2454	0	■ 599.82	۵	552.51	RN/L	3.0214
SECTION (1) BODY FLAP UPPER	DEPENDENT VARIABLE CP						
X/LB 1.0180 1.0460							
1804'- 8588 - 000°C4 4368'- 2888 - 000° 14d							
ALPHA (3) = 3.925 BETA (3) =	4.237 MACH = 1.2454	0	599.85	۵.	= 552.51	RN/L	3.0214
SECTION (1)BCDY FLAP UPPER	DEPENDENT VARIABLE CP						
X/LB 1.0180 1.0460							
PHI . 655. + .37583793 . 90.00.04							

. PAGE 5531	FLAP UP (XEBF29)	599.59 P = 552.98 FN/L = 3.0205			ı	599.59 P * 552.98 RN/L * 3.0205				599.59 P = 552.98 RN/L = 3.0205				599.71 P * 552.98 RN/L * 3.0237				599.71 P * 552.98 RN/L * 3.0237			
PRESSURE DATA - DAIMB (AMES 11-073-1)	AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP UP	-3.870 MACH = 1.2446 G =	DEPENCENT VARIABLE CP			.176 MACH = 1.2446 0 =	DEPENDENT VARIABLE CP			4.240 MACH = 1.2446 Q =	DEPENDENT VARIABLE CP			-3.851 MACH = 1.2447 0 =	DEPENDENT VARIABLE CP			.177 MACH = 1.2447 G =	DEPENDENT VARIABLE CP		
CATE 13 FEB 76 TABULATED PR	4	41944 (4) m 7,690 BETA (1) m	SECTION OF THEODY FLAM UPPER	X/19 1.0189 1.0459	26:4'- \$268'- 000'6+ 2704'- \$368'- 000'6+	ALPHA (4) = 7,834 821A (2) =	SECTION : 1) BODY FLAP UPPER	X/EB 1.0460	6555 - 1 - 1805 - 1 - 000 - 0 + 1 - 000 - 0 + 1 - 000 - 0 + 1 - 0 - 0 - 0 + 1 - 0 - 0 + 1 - 0 - 0 + 1 - 0 - 0 + 1 - 0 - 0 + 1 - 0 - 0 - 0 + 1 - 0 - 0 - 0 + 1 - 0 - 0 - 0 + 1 - 0 - 0 - 0 - 0 + 1 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 -	ALPHA (4) = 7,088 BETA (3) =	SECTION () BODDY FLAP UREER	COTO:: DB:C::	6558. t	A_CHA (5) H (1,923 BETA (1) =	SECTION : 1190DY FLAP GAPER	S#0.1 08:0:1	2847'+ 88(4'+ 000'04 2404'+ 8804'+ 000'04	11.93 BITA (2) =	SECTION (TOBODY FUAP UPPER	09h0'1 0810'% 87.X	MOST F WORT F OF STA

ORIGINAL PAGE IS OF POOR QUALITY

JABULATED PRESSURE DATA - 04148 (AMES 11-073-1) 04TE 13 FEB 75

APES 11-073(0A148) -140A/B/C/R ORB BODY FLAP UP

۵ = 599.71 ø 4.253 MACH = 1.2447 ALPHA (5) = 11,927 | BETA (3) = SECTION (1793BY FLAD WARR

DEPENDENT VARIABLE CP

095011 081611 E7/X

-.4751 -.4189 -.3930 -.4152 147 1030 49.680

3.0237

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(XEBF29) 552.98

PAGE 5532

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ABULATED PRESSURE DATA PRESSURE DATA PRESENCE DATA PREFERONCE DATA 1075.6800 IN.	(XEBF30) (D5 PARAMETRIC DATA * -10.000 SPDB9K *	PASE 5533 AJG 75 :: 35.000
474,8000 14, 378P # 486,000 17, 278P # 1,000 17, 278P # 1,000 17, 278P # 1,000 17, 27,0000 17, 27,000 17, 27,000 17, 27,000 17, 27,000 17, 27,000 17, 27,0		10 N
ON (1) GCDY FLAP UPPER DEPENDENT VARIABLE CP	ga *no/ =	9
7.034. 1.0450. 1034 200. 144. 1034 205. 145. 165.		
ALDMA (1) m -3.955 BETA (2) m .190 MACH = 1.0997 Q m 600.21 SECTION (1) NOOM TAP UPPER DEPENDED VARIABLE OF	P # 709,06 RN/L #	3.1938
X/B 1.0180 1.0472 PHI 000 - 14180 - 14272 C00 000 - 14180 - 1423		
#1784 (1) = -3.992	P = 709.36 RN/L =	3
2007 - 20		
- <u>2</u>	1,758 35 35 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	1999 1999 1999
788 7754 600. 186.000 - 4358 4537		

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13 FEB 76 TABULATED PR	PRESSURE DATA - OA148 (AMES 11-073-1) AMES 11-073(04148) -140A/B/C/R ORB BODY FLAP UP	11-073-1 18 ORB 80	^ Š	LAP UP			(XEBF30)	4 €	PAGE 5534 !A	Ē.
2) =014 BETA (2) =	.187 MACH = 1.0986	a		59g. 48	۵.		739.54	7/2		3.:535
ION : 1:800Y FLAP UPPER	DEPENDENT VARIABLE CP									
1.3182 1.0460										
0 - 14152 - 14277 0 - 14327 - 14474										
2) =017 BETA (3) =	4.244 MACH * 1.0986	ø		599.48	۵	•	¥2.607	1/8	m H	3.1996
CN (17800Y FLAP UPPER	DEPENDENT VARIABLE CP									
000000000000000000000000000000000000000										
8014-1 - 00164-1 - 00										
3' = 3.953 BETA (1) =	-3.869 MACH # 1.1006	o	#	600.44	α.		108.14	Ž	# '42	3. :894
d⊒dd∩ dY73 XCO6.1) NDI	DEPENDENT VARIABLE CP									
CO										
:: :.032										
3) = 3,959 BETA (2) =	.177 MACH = 1.1006	a	*	600.44	O.		738.14	1/2	m *	3.:39
BERT ATTA ACTE TO NOT	DEPENDENT VARIABLE CP									
0950 1 0960 1										
010 +.4398 +.4.93 010 +.43834476										
3) H (N) H130 (SS) N (N)	4.23+ MACH = 1,1006	O	(C)	99008	α.	H .	108.14	7.8	m.	3. 189
8 3860 8774 8886.1 : 88	DEPENDENT VAPIABLE CP									
1.0180 1.0450										
39177 - 68277 - 68277 - 1										

]

RH CBT411841 ST 85 85 81 Ett5	RESSURE DATA - CAIMB (AMES :1-073-1	1-073-1		10.44 th 10.54 th 10.55 th 10.
ď	ANES 11-073(0A148) -140A/B/C/R ORB BODY FLAP UP	R CRB BODY FLAP UP	CEJESK	
# (1) #138 #200 = .50 #Hefy	-3.862 MACH = 1.0985	G = 599.52	F	EBB TE # TONE
SECTION : PERSONAL BASE USES	DEPENDENT VARIABLE CP			
00 x 0 x				
の10か、1 の10か、1 の100か、1 の100か、1 0100、0か 1元6				
ALPHA 1 47 = 8.041 BETA (2) =	.181 MACH = 1.0985	553.52	E G	5801 . 3.1863
REGEO OFTH WOOR(1) NOTIOES	DEPENDENT VARIABLE CP			
19.50 1 08.10 1 B 7/K				
10 f 10 m 20 m 20 m 20 m 20 m 20 m 20 m 20 m 2				
# (E) 4138 C-0-014 (4) # (5)	4.238 MACH = 1.0985	C = 599.52	C GC #	590 E # 1.NP
Bellen ett. Zoon i Zoitus	DEPENDENT VARIABLE OF			
081011 081011 m1.X				
Modern Cookers				
ALPHA 7 01 = 11.975 BETA (1) =	+3.843 MACH = 1.0970	0 = 559.10	en F	RV. * 3.1992
elect evil A005(1) (01105)	DEPENDENT WARTABLE CP			
23+0:0 DB(0:1) B1××				
(2000年) 1				
HI CALL MILETON COSCILLIA HILLONG CATHOLIC	.181 2970 = 1.3970	0 * 599.10	th f	EE811 € # 11 %
SECTION (1.800V Flab UPPER	DEPENDENT VARIABLE CP			
3/LB (1799-1.0450				
BC18-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-				

1:

VE8537 ANES 11-073(0A148) -140A/B/C/R 0RB BCDY FLAP UP TABULATED PRESSURE DATA - DAINB (AMES 11-073-1) EL 431 EL 3140

599.13 O 9.250 mACH = 1.0977 DEPENDENT VARIABLE OF 18 (M) 野社 BEGINS OF THE MODELL IN COLLOSS 11:311 = 11:314H

(h)

9838 BS49

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DATA
PRESSURE
TABULATED
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'n
13 FEB
CATE

0A148 (AMES 11-073-1)

AUG 75			* *			
(XEBF31) (05 AUG 75	DATA	SPOBRK = L-ELVN #	RN/L			
(XEBF3	PARAMETRIC DATA	-10.00J 16.300 .000	* 1059.2			
		RUDDER = BGFLAP = R-ELVN =	۵			·
ODY FLAP UP	• . • .		= 600.28			
C/R 0RB B(o			
18) -140A/B/			. 89977	RIABLE CP		
AMES 11-07310A148) -140A/B/C/R ORB BODY FLAP UP		1076.6800 IN. XO .0000 IN. YO 375.C000 IN. ZO	-3.952 MACH	DEPENDENT VARIABLE CP	•••••	
ANE		XMAP = 1076. YMAP = 275.	(1)			
	REFERENCE DATA	2690.000 50.FT. X 474.8000 1N. 3 935.0680 1N. 2	-3.977 BETA	ON FLAP UPPER	0940'1 0810'1	37 - 2834 59 - 3076
		SPEF = 2690.0 LREF = 474.6 BREF = 935.0 SCALE = 0.55.0	ALPHA (1) = -3,977	SECTION K 1180DY FLAP UPPER	X/LB 1.0:	. 300 . 300 3537

4.269 MACH ALPHA (1) = -3.996 BETA PHI - 0000

DEPENDENT VARIABLE CP SECTION (13800Y FLAP UPPER 1.0180 1.0453 X/LB

.89780 DEPENDENT VARIABLE CP MACH -3.870 BETA SECTION / 19803Y FLAP UPPER ≥00-- = ALPHA (2)

1.0183 1.5456

.5777

600.28

77668.

MACH

187

DEPENDENT VARIABLE CP

1.0:80 1.0450

SECTION (1'BCDY FLAP UPPER

X/13

ALPHA (:1 = -3.975

-.3213 -.3139 PH1 .000 #0.000

	NGE 5538		3.5706			= 3.5706			- 3,5709	 !			3.57 09			12: 12: 11: 11:							
	ā = _	_	RN/L			EN/L			- BN/I			• •	FW/L			. J?			5157	4 **	× × ••	••	••
		(XEBF31	- 1050.9			= 1060.9			= 1659.5				= 1059.5			= 1059. ≥							
- i I						· . •			۵				۵.			O.			**************************************	, a. e.	•		
		Y FLAP UP	- 599.63			- 598.63		· ,	00,965			, d +9	299.00			599.00			uchu nin s	naurzyn	s		
	11-073-1	/R ORB BOD	a _			a	ing Turk		ď	i						. a							
	RE DATA - DATHB & AMES	AMES 11-073(0A1%B) -140A/B/C	.184 MACH = .89780			+7 MACH = .89780	DEPENDENT VARIABLE CP		72 MACH = 89870	ENDENT VARIAB			34 MACH = .89870	OEPENDENT VARIABLE CP		13 MACH = .89870	DEPENDENT VARIABLE CP					, satis	Na riche
	TABULATED PRESSURE DATA	AMES	# 10		\$.**	3) = 4.247	8		978.2				. 184	ö		E 4	83						
	7.6		BETA (1.0180 1.0460	3015 +.3083 3206 +.3303	*010 BETA (1 BODY FLAP UPPER	1.0180 1.0460	3247 +.3342 = 3.984 BETA (6.	1.0180 1.0460	29693123 30863334	=383 BETA (1)EQDY FLAP UPPER		= 2.579 BETA (SCOY FLAP UPPER	0940.1 0810.	- 3193 + 3109 - 3198 + 3109 - 3198 + 3109				
	DATE 13 FEB	•	ALPHA (2)		- 000 000	· 🚓	SECTION (40.000 ALPHA 7.33	SECTION (X/LB	GOO TOT	ALPHA (3)	SECTION (0 G 0 G	1	- 70 Holls	6	1 000 1 000 1 000 1 000				

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DATE 13 FEB 75	TABULATED F	PRESSURE DATA - 0A148 (AMES 11-073-1	11-073-1	_				D., -	PAGE 5539
		AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP UP	7R ORB BO	7	AP UP		(XE8F31)		
ALPHA (4) = 8.057 BETA	(1) =	-3.860 MACH = .89807	0	и.	598.57	۵	= 1060.2	RN/L	* 3.5677
SECTION (1)BODY FLAP UPPER		DEPENDENT VARIABLE CP	· •			eriga. 1	•		
X/LB 1.0180 1.0460		- 1							
PHI .000 - 2953 - 3078 +0.000 - 3655 - 3247									. •
ALPHA (4) = 8.064 BETA	£ (2) ±	.187 MACH = .89307	o	H	598.57	<u> </u>	= 1060.2	RN/L	3.5677
SECTION (1)800Y FLAP UPPER		DEPENDENT VARIABLE CP							
X/LB 1.0:83 1.0+60					. come en		* . *		
PHI .000 - 3157 - 3171 .00000 - 3054 - 3171					e de desta				
ALPHA (4) = 0.059 BETA	(3) =	4.245 МАСН = .89807	Ø		598.57	۵.	= 1060.2	RN/L	* 3.5677
SECTION (1)800Y FLAP UPPER		DEPENDENT VARIABLE CP							
X/LB 1.0183 1.0460			,						
PHI .55532413088 .0.00031773147									
ALPHA (5) = :1.980 BETA		-3.854 MACH = .89717	o	H H	598.01	۵.	# 1061.4	RN/L	= 3.5714
SECTION : 1380DY FLAP UPPER		DEPENDENT VARIABLE CP							v.
X/LB 1.018C 1.0450								•	•
HE									••••
ALPHA (5) = 11.990 BETA	(2) *	.184 MACH = .89717	a	N.	598.01	ŭ.	# 1061.4	RN/L	= 3.5714
SECTION . LIBSSY FLAP UPPER		DEPENDENT VARIABLE CP							
x/La :.3:80 1.0453									
PH1 .03029153000 +0.30029333000									

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PAGE 5542	0718.4 # 1/NG #	1			•		3 RN/L = 4.8132				3 RN/L = 4.8132				3 RN/L = 4.8132				3 RN/L = 4.8132			
(25.383X)	x 3820 1						* 2385.3		J.		= 2386.3				- 2386.3				* 2385.3			
3-1)		00.400					■ 593.85 P				■ 593.85 P	w th			= 593.85 P				= 593.85 P			
SSURE DATA - 0A148 (AMES 11-073-1)		D. MACH = .59604	DEPENDENT VARIABLE CP				3 MACH = .59622 0	DEPENDENT VARIABLE CP			7 MACH = .59622 0	DEPENDENT VARIABLE CP			6 MACH = .59622 0	DEPENDENT VARIABLE CP			1 MACH = ,59622 0	DEPENDENT VARIABLE CP		
TABULATED PRESSURE	Ž	BETA (5) = 8.546					BETA (1) = -7.883			• ,• •	BETA (2) = -3.857			٠,	BETA (3) * .186				BETA (+) = 4.251			
DATE 13 FEB 76	. 1	ALPHA (1) = -4.045	SECTION : DIBODY FLAP UPPER	X7LB 1.0180 1.0%50	K	40.000286d3206	ALPHA (2) = .034 (SECTION () BODY FLAP UPPER	X/48 1.0180 1.0460	PHI .03025612651 .40.03022742636	ALPHA (2) = .043 8	SECTION (1) BODY FLAP UPPER	x/48 1.0180 1.0¥60	PHT 2523 - 2634 200 2523 2702 2705 2705	ALPHA (2) = .045 ;	SECTION (1) BOOY FLAP UPPER	X/LB 1.0180 1.0460	9H; .30025012570 40.00027993107	145. = (2) AHGJA	SECTION ! ITBODY FLAP UPPER	37.LB 1.0460	PHI26152738

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		177-1			Αď	PAGE 5543
DATE 13 FEB 76 TABULATED	TABULATED PRESSURE DATA - DATAB (ARES 1. 3/5-1)	1 1-6/				
	AMES 11-073(CA148) -140A/B/C/R ORB BODY FLAP UP	R ORB BODY FLAP UP		(XEBF32)		•
ALPHA (2) = .035 BETA (5) =	8.312 MACH = .59522	0 = 593.85	۵	= 2386.3	RN/L	* 4.8132
SECTION (1) BODY FLAP UPPER	DEPERDENT VARIABLE CP					
X/LB 1.0190 1.0460						
PH1 .00026742697 .00029653267						
ALPHA (3) = 4.019 BEIA (1) =	-7.879 MACH - 59602	0 = 593.50	۵	₹ 2386.4	PN/L	4.8147
SECTION (1)BODY FLAP UPPER	DEPENDENT VARIABLE CP					
X/LB 1.0190 1.0460						
PH; .00023692415 90.00025652865						1
ALPHA (3) = 4.016 BETA (2) =	-3.855 MACH = .59602	0 = 593.50	۵.	= 2385.4	RN/L	* 4.8147
SECTION (1)BODY FLAP UPPER	DEPENDENT VARIABLE CP					
X/EB 1.0180 1.0450						
PHI .00024782475 42.00026913013		·				
ALPHA (3) = 4.015 BETA (3) =	.196 MACH = .59602	g = 593.50	a.	- 2386.4	1	- 4.8147
SECTION (1)BODY FLAP UPPER	DEPENDENT VARIABLE CP					
X/LB 1.0180 1.0460						•
PHI .00026042817 .00027893035						
ALPHA (3) = 4.015 BETA (4) =	4.243 MACH = .59602	0 = 593.58	۵.	÷ 2386.4	7 <u>%</u>	= 4.8147
SECTION (1:BOOY FLAP UPPER	DEPENDENT VARIABLE CP					
X/LB 1.0180 1.0450						
PHI .00027432890 40.004						

				•
DATE 13 FEB 76 TABULATED PRESSU	TABULATED PRESSURE DATA - DAINB (AMES 11-073-1)			PAGE 5544
APES	AMES 11-07310A148) -140A/B/C/R ORB BODY FLAP UP	ON FLAP UP	(XEBF32)	
ALPHA (3) = 4.018 BETA (5) = 8.2	8.295 MACH = .59602 0	= 593.50 P	≈ 2386.4	RN/L = 4.8147
SECTION (17BODY FLAP UPPER	DEPENDENT VARIABLE CP			
X/L3 1.0180 1.0460				
PHI .00027612760 40.00029973155				
ALPHA (4) = 8.080 BETA (1) = -7.877	177 MACH = .59636 0	• 594.21 P	= 2386.7	RN/L = 4.8181
SECTION (1)BODY FLAP UPPER DI	DEPENDENT VARIABLE CP			
X/LB 1.0180 1.0460				
PHI .0c024222507 40.00026703005				
ALPHA (4) = 8.089 BETA (2) = -3.848	№8 МАСН59636 0	≠ 594.21 P	= 2386.7	RN/L = 4.8181
SECTION (1)BODY FLAP UPPER	DEPENDENT VARIABLE CP			
X/LB 1.0180 1.0460				
741 .30025112709 40.30025892771	. 1			
ALPHA (4) = 8.087 BETA (3) = .18	.188 MACH = .59536 Q	= 594.21 P	= 2386.7	RN/L # 4.8191
SECTION (1) BODY FLAP UPPER DE	DEPENDENT VARIABLE CP			
X/LB 1.0180 1.0450				
PHI .00026272799 .000027172965				
ALPHA (4) = 8.086 BETA (4) = 4.243	43 MACH = .59636 0	- 594.21 P	- 2386.7	RN/L * 4.8181
SECTION (1)BODY FLAP UPPER DE	DEPENDENT VARIABLE CP			
X/L3 1.018G 1.546D				·· •
PHI .00027183001 40.00029633178				

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DATE 13 FEB 76 TABULATED P	TABULATED PRESSURE DATA - DATH8 (AMES 11-073-1)	1-073-1)			a.	PACE 5545
	APES 11-073(0A148) -140A/B/C/R ORB BODY FLAP UP	R ORB BODY FLAP UP	,	(XE8F32)		
ALPHA (4) = 8.082 BETA (5) =	8.301 MACH = .55636	0 = 594.21	a	= 2386.7	FN/L	# 4.818
SECTION (1) BOOY FLAP UPPER	DEFENDENT VARIABLE CP					
X/LB 1.0190 1.0460						
PH1 . 300 - 2822 - 2864 . 40.000 - 3084 - 3337						
ALPHA (5) * 12.017 BETA (1) =	-7.830 MACH " .59626	0 = 593.97	Q.	- 2386.7	Z/KE	- 4.B175
SECTION (1) BODY FLAP UPPER	DEPENDENT VARIABLE CP					
X/LB 1.0180 1.0460						
PHI .000 8545 000. 0.000 2659 000.04						
ALPHA (5) = 12.037 BETA (2) =	-3.825 MACH = .59625	Q = 593.97	Q.	= 2386.7	₹ ¥	- 4.8175
SECTION (1)BODY FLAP UPPER	DEPENDENT VARIABLE CP					
X/LB 1.0180 1.0460						
PHI .00025922573 40.00026512854						
ALPHA (5) = 12.038 BETA (3) =	.185 MACH = .59626	0 = 593.97	a.	= 2386.7	PRV.L	4.8175
SECTION (1) BODY FLAP UPPER	DEPENDENT VARIABLE CP					
X/LB 1.0180 1.0460						•
PH1 .00024622533 40.00025122774						
ALPHA (51 = 12.033 DETA (4) =	4.256 MACH = .59626	0 - 593.97	٥	- 2786.7	1/ NSW / L	* 4.B175
SECTION (1)800Y FLAP UPPER	DEPENDENT VARIABLE CP					
X/L8 1.0180 1.0460						
PHI .00025652759 40.0002753135				a [*]		

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AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP UP	
	AMES 11-07310A148) -140A/B/C/R ORB BODY FLAP UP

SECTION (1) BODY FLAP UPPER ALPHA (5) * 12.024

1.0180 1.0450

. PAGE 5547	(DS AUG 75)		SPD69K * 35.000 L-ELVN * .000	ROLA = 2.9043			RN/IL = 2.9043				RN/IL = 2.9043				PN/L = 2.9098			
	(XEBF33)	PARAMETRIC DATA	16.435 36.330 10.030 1.45	± 439.71			* 439.71				= 435.71				= 440.18		2.	
	e F	÷	RUDOER BDFLAP R-ELVN	α.			۵.		. •	· .	٥				۵			
	FLAP UP			599.12			599.12				599.12	٠		** • · · · · · · · · · · · · · · · · · ·	599.11			•
. (1-240	ORB BODY	**.		•			0				ı Q				•			
PRESSUPE DATA - 0A148 (AMES 11-073-1)	-140A/B/C/R ORB BODY FLAP UP			3952	8		. 3952	8		· · · · · ·	1.3952	à			1.3944	8		
- 0A148 (4148) -14		000	- -	DEPENDENT VARIABLE			DEPENDENT VARIABLE		٠.	N	DEPENDENT VARIABLE		i '		DEPENDENT VARIABLE		
PE DATA	AMES 11-073(0A148)		300 IN. XO 300 IN. YO 300 IN. ZO	жв масн	EPENDENT		. 195 MACH	EPENDENT			4.277 MACH	EPENDENT			SEE MACH	FPENDENT		
		•	1376.6800 0000 375.0000	-3.848		-	-				*	u			-3.866	th.		
1 TABULATED		«	XMRP = ZMRP =	BETA (1)	or:	5	BETA (2)	α.			BETA (3)	α		-	BETA (1)	α		٠.
		REFERENCE DATA	50.FT.	0	FLAP UPPER	- 325 - 325		FLAP UPPER	1.04 60	3!53	38 4:11.	DIBOCY FLAP UPPER	1.0450	3238	36 640	DIBCOY FLAP UPPER	1.0460	SHEET.
τυ - ίδ		PEFER	2690,0000 +7%.6000 1836,0580	-4.110	1.93BG	3236 3458	10.10	1 BODY	1.0180	+.3158 3452	*		1.0180	-,3297 -,3638	, ,		1.0180	.3326
1 PATE 13 FEB	•	<u></u>	50 50 50 50 50 50 50 50 50 50 50 50 50 5	€ •	SECTION '	7#1 .000 #0.000	ALPHA (1)	SECTION 1	X/LB	9#1 . 000 . 90, 000	ALPHA (1)	SECTION :	81/x	PHI - 900 +0.000	ALPHA (2)	SECTION 1	87/x	PH:

0.00

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TABLATED PR	TABULATED PRESSURE DATA - DATYB (AMES 11-073-1)	1-073-1				L	PAGE 35	- 13 - 13 - 13 - 13 - 13 - 13 - 13 - 13
	AMES 11-07310A1481 -140A/B/C/R OR8 BODY FLAP UP	3 OR8 BOC	N FLAP UP	:	(1 EBF33)		:	
", PHA (2) = DMB BETA (2) =	.18] MACH = 1.3944		* 599.11	۵	* 440.18	1	r	5 .909 8
SECTION : 13 BOOY FLAP UPPER	DEPENDENT VARIABLE CP							
094D': 0810'' 877K			<u> </u>					
PH1 .000 - 3256 - 3334 .000,00	v 1							
ALPHA (2) =050 BCTA (3) =	4.256 MACH = 1.3944	ø	599.11	<u>a</u>	- 440.1B	X	ار ا	8608. 2
SECTION I INBODY FLAP UPPER	DEPENDENT VARIABLE CP							
X LB 1.0180 1.0450								
146 120 - 13369 - 13476 13.010 - 13585 - 3376								
	-3.869 MACH = 1.3948	O	= 599.42	۵.	* 440.18	Ē	من •	77.6.9
SECTION TIMBON FLAP UPPER	DEPENDENT VARIABLE CP							
X/LB 1.2190 1.0460								
1Hd .000 - 3448 000.04 45.500 - 3370								•
ALPHA ; 3) * 3.895 BETA [2) *	.190 MACH = 1.3948	o	= 599.42	Q.	# 45C.18	17	ni •	7.9147
SECTION (1)BODM FLAP UPPER	DEPENDENT VARIABLE CP							
X/LB 1.0180 1.0450								
744E 4735.+ 1000. 744E 4733.+ 1000.24								•
ALPHA (3) = 3.896 9ETA (3) =	4.246 MACH * 1.3948	CI	599.1 12	Q.	* **0.18	3		7. 9147
SECTION & 11800Y FLAP UPPER	DEPENDENT VARIABLE CP						,î.	
x/L9 1,0180 1.0460								
PH: .CCD33913505 40.CC32243328							:	

	2.93.4 5				2.9146				R.9146				2.9121				2.9121	2.7	
	* -4				ب				# الج								# -1		
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IXEBF3	443.65				39.0mi				440.65				436°		٠		439.9		
									Ą	• • •			•				•		
	Δ.		-		<u>α</u>				•	•			Q.				p.		
FLAP UP	599.72				599.72				595.72				599.73				599.73		
. aoo₁	Ħ				Ħ				Ħ										
280 A	ø				ø				Œ				ø				0		
48) -140A/8/C	+46£.1 =	ARTABLE CP			= 1.3944	AFIABLE CP			# 1.3344	ARIABLE CF			= 1.3955	ARIABLE CP			= 1.3955	ARTABLE CP	
57310A1	MACH	CENT V				VDENT V			MACH	WDENT V			MACH	DENT V			MACH	DENT V	
AMES 11-0	-3.865	DEPE			. 185	13430			4.238	1363C			-3.851	V3d3Q			. 189	DEPEN	
	# =				(2) =				# 60 1								(5) =		
Č	MT38 746	FLAP UPPER	1.2450	- 3471	946 BETA	FLAP UPPER	1.0453	-,3512 -,3450	944 BETA	FLAP UPPER	1.0450	3500 3+26	859 BETA	FLAP UPPER	1.0450	3725	8E5 BETA	FLAP UPPER	
)	.7.	DECOY	1.3190	3+52 3632	H	DECDY	1.0:83	3485 3349	= 7.	(Adder I	1.0380	3481 3346	- 11.1	DECON	1.0180	3580 3749	11.5	1.3BCDY 3	
	ALOHA (4:	SEDT (CN)	E: x		ALPUR (4)	SECTION .	X/LB	1960 Co	ALPHA (+)	SECTION (E7/X	946 000 104 000 104	ALPHA (5)	SECTION (x/tB	PH1 , 000 43, 000	ALPHA (5)	SECTION (
		AMES 11-073(04148) -1404/B/C/R 089 BODY FLAR UP (XEBF33) (4: = 7.947 BETA (1) = -3.885 MACH = 1.3944 Q = 599.72 P = 443.65 RN/L =	CN 1 1:18COY FLAP UPPER 0 = 599.72 P = 441.65 RN/L = 1:18COY FLAP UPPER 0 = 599.72 P = 441.65 RN/L = 100	CN 1:18CDY FLAP UPPER AMES 11-G73(0A148) -140A/B/C/R ORB BODY FLAP UP CN 1:18CDY FLAP UPPER DEPENDENT VARIABLE CP 1.3180 1.3450	CH 1 1 1 1 1 1 1 1 1	Ch = 7.947 BETA (1) = -3.865 MACH = 1.3944 Q = 599.72 P = 443.65 RN/L = 1.3190 1.319	CN 1 3:8CDY FLAP UP 1.3130 1.5450 34523471 50035323471 50036523471	# (+) = 7.947 BETA (1) = -3.855 MACH = 1.3944 Q = 599.72 P = 443.65 RN/L = 1.3190 1.5190 1.5450 1.0190 1.0450	AMES 11-073(0A148) -140A/B/C/R OAB BOOY FLAP UP FICH 13:BCDY FLAP UPPER 1.0190 1.040 TEBF33: AMES 11-073(0A148) -140A/B/C/R OAB BOOY FLAP UP -3.865 MACH = 1.3944 Q = 599.72 P = 443.65 RN/L = 1.3944 1.0190 1.046 1.0190 1.0460 -3623471 1.0190 1.0460 -3623452 -346 BETA (2) = 1185 MACH = 1.3944 Q = 599.72 P = 440.65 RN/L = 1.0190 1.0460 -3623452 -3623452 -3623453	AMES 11-G73(OA148) -140A/B/C/R O98 BOOY FLAP UP 1.3944 Q = 599.72 P = 443.65 RV.L = -3.855 MACH = 1.3944 Q = 599.72 P = 443.65 RV.L = 1.3180 1.5460 RV.L = 1.3180 1.5460 RV.L = 1.3180 RV.L = 1.31	### 7.347 BETA (1) = -3.865 Mach = 1.3944	1.	AMES 11-073(OA149) -140A/B/C/R OAB BODY FLAP UP 1.0190 1.0560 1.	1.0190 1.0450 1	AMES 11-G73(OA(48) - 140A/B/C/R OPB BOOY FLAP UP	AMES 11-G73(Oat+93) - 140A/B/C/R OMB BOOY FLAP UP 1759943 175973 175974	1.0190 1.0400 FLAP UPPER 1.3944 0 = 599.72 P = 441.65 PN/L = 1.3944 DEFENDENT VARIABLE CP 1.3944 DEFENDENT VARIABLE CP 1.3944 DEFENDENT VARIABLE CP 1.3944 D = 599.72 P = 441.65 PN/L = 411.65 PN/L = 411.65	1.01 1.04	1.01 1.01 1.02 1.04 1.05 1.04 1.05 1.04 1.05

DATE 13 FEB 76 TABULATED F	PRESSURE DATA - DAIHB (AMES 11-073-1)	3-1)			a.	PAGE 5550
	AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP UP	BODY FLAP UP		(XEBF33)		
ALPHA (5) = 11.860 BETA (3) =	4.253 MACH = 1.3955 Q	599.73	۵	* 439.9H	FA/L	- 2.9121
SECTION (1) BODY FLAP UPPER	DEPENDENT VARIABLE CP					
X/L8 1.0180 1.0460						
PH1 .00035883548 .000.04						
ALPHA (5) = 15.949 BETA (1) =	-3.830 MACH = 1.3950 0	599.93	۵.	14.044	PN/L	- 2.9347
SECTION (1)BODY FLAP UPPER	DEPENDENT VARIABLE CP					
X/LB 1.0180 1.0450						
PH1 .00037823815 .00.00036574089						•
ALPHA (6) = 15.859 BETA (2) =	.186 MACH = 1.3950 0	= 599.93	۵	14.044 =	FN/L	■ 2.9347
SECTION (1)BCDY FLAP UPPER	DEPENDENT VARIABLE CP					
X/LB 1.0180 1.0450						
PH1 .00037943771 40.00039814100						
ALPHA (5) = 15.851 BETA (3) =	4.283 MACH = 1.3950 0	= 599.93	٥	* 440.41	FN/L	- 2.9147
SECTION (1)BODY FLAP UPPER	DEPENDENT VARIABLE CP			* **:		
X/LB 1.0180 1.6460						
PH1 .000 - 3832 - 3881 +0.000 - 3957 - +082						

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DATE 13 FEB 76 TABULATED PRESSURE DATA - DAIHB (AMES 11-073-1	1-073-1			•	PAGE 5551
AMES 11-073(0A148) -140A/B/C/I	-140A/B/C/R ORB BODY FLAP UP	<u>e</u>	(XE8F34)	_	05 AUG 75)
REFERENCE DATA	. , , , ,		PARAMETRIC DATA	C DATA	
SREF = 2690,0000 SQ.FT, XMRP = 1076.6800 IN. XO LREF = 474.8000 IN. YMRP = .0000 IN. YO BREF = 936.0500 IN. ZMRP = 375.0000 IN. ZO SCALE = .0300		RUDDER - BDFLAP - R-ELVN -	10.000 16.300 10.000	SPDBRK = L-ELVN = HACH	35.000 .000 1.250
ALPHA (1) = -4.064 BETA (1) = -3.845 MACH = 1.2480	009 = 200	500.05 P	= 550.48	RNAL	# 3.0174
SECTION (1) SGDY FLAP UPPER DEPENDENT VARIABLE CP					
X/LB 1.0180 1.0460					
PH1 .00036493540 +0.00038083907					
ALPHA (;) = -4.041 BETA (2) . , 192 MACH . 1.2480	009 - 00	600.05 P	= 550.40	PN/L	* 3.017t
SECTION (1) BODY FLAP UPPER DEPENDENT VARIABLE CP					• .
X/LB 1.0180 1.0460	* 2 · 2 · 1				
PH1 .00035243572 40.00037233831					• . • . •
ALPHA (1) = -4.051 BETA (3) = 4.275 MACH = 1.2480	009 • 00	600.05 P	- 550.40	RN/L	= 3.0174
SECTION (1) BODY FLAP UPPER CP					
X/LB 1.0180 1.0450					
PHI .00036583774 .0.00035823824					
ALPHA (2) =032 BETA (1) = -3.867 MACH = 1.2476	009 - 0	S00.19 P	- 550.87	FW/L	3.0137
SECTION (1) BODY FLAP UPPER DEPENDENT VARIABLE CP					
X/LB 1.0180 1.0460					
PH1 .00037883885 +0.00036533738		·····			

PAGE 5552		= 550.87 RN/L = 3.0137			-	= 350.87 RN/L = 3.0137				= 551.33 RN/L = /3.0145	-	• • • • • • • • • • • • • • • • • • •		= 551,33 RN/L = 3.0145				= 551.33 RN/L = 3.0145			
	BODY FLAP UP	* 600.19 P				= 600.19 P		on a consideration of the cons		- 599.48 P				а 599.48 р				≈ 599.48 P		•	
TABULATED PRESSURE DATA - 04148 (AMES 11-073-)	AMES 11-07310A1487 -140A/B/C/R ORB E	.184 MACH = 1.2476 0	DEPENDENT VARIABLE CP			4.251 MACH = 1.2476 Q	DEPENDENT VARIABLE CP			-3.871 MACH = 1.2463 0	DEPENDENT VARIABLE CP	• R		.180 MACH = 1.2453 Q	DEPENDENT VARIABLE CP			4.244 MACH = 1.2463 0	DEPENDENT VARIABLE CP		
DATE 13 FEB 76 TABULATED PR		ALPHA (2) =029 BETA (2) =	SECTION (11800Y FLAP UPPER	K/LB 1.0180 1.0460	40.00035943712	ALPHA (2) =035 BETA (3) =	SECTION (1)BODY FLAP UPPER	X/LB 1.0180 1.0450	PHI .000 - 3863 - 3979	. 3.5	SECTION (1)BODY FLAP UPPER	X/LB 1.0180 1.0460	PHI .00038733916 .40.00.04	3.6	SECTION (1) BODY FLAP UPPER	X/LB 1.0180 1.0460	PHI .000. .000.04 -3895.	ALPHA (3) = 3.934 BETA (3) =	SECTION (1)BODY FLAP UPPER	X/LB 1.0180 1.0460	PH1 .00038984039

PAGE 5553	(XEB-39)	= 550.87 RNVL = 3.0135				= 550.87 RN/L = 3.0135				= 550.87 RN/L = 3.0135		-		= 552.28 RN/L = 3.0144				* 552.28 RN/L * 3.0144			
TABULATED PRESSURE DATA - CAINB (AMES 11-073-1)	AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP UP	-3.866 MACH = 1.2474 0 = 600.07 P	DEPENDENT VARIABLE CP			.186 MACH = 1.2474 Q = 600.07 P	DEPENDENT VARIABLE CP			4.237 MACH = 1.2474 0 = 600.07 P	DEPENDENT VARIABLE CP		•	-3.850 MACH * 1.2455 Q * 599.75 P	DEPENDENT VARIABLE CP	a		.189 MACH * 1.2455 Q * 599.75 P	DEPENDENT VARIABLE CP		
DATE 13 FEB 76 TABULATED P		ALPHA (4) = 7.988 BETA (1) =	SECTION (1)BODY FLAP UPPER	X/LB 1.0180 1.0460	PHI .00038733859 .0.00019941859	ALPHA (4) = 7.987 BETA (2) =	SECTION (1)BODY FLAP UPPER	X/LB 1.0180 1.0460	1814 4985 000.04 11814 4985 000.04	ALPHA (4) = 7.988 BETA (3) =	SECTION (1)BODY FLAP UPPER	X/LB 1.0180 1.0460	PHI .03040704176 .43.00037683550	ALPHA (5) * 11.921 BETA (1) *	SECTION (1) BODY FLAP UPPER	X/LB 1.0180 1.0460	PHI .0004036 .4067 40.00041664378	ALPHA (5) = 11.932 BETA (2) =	SECTION (1)BODY FLAP UPPER	X/LB 1.0180 1.0460	PHI .00039173934 40.0004383

APES 11-073(0A148) -140A/B/C/R ORB BODY FLA

TABULATED PRESSURE DATA - DAINB (AMES 11-073-1)

DEPENDENT VARIABLE CP

SECTION (1)BODY FLAP UPPER

ALPHA (5) # 11.924

DATE 13 FEB 76

1.0180 1.0456

4.253 MACH

DATE 13 FEB 76	76	TABULATED P	PRESSURE DATA	DATA - 04	- DA148 (AMES 1	AMES 11-073-1	•				a .	PAGE 5555	22
			AMES 11+	11-073(0A148)	3) -140A/B/C/R ORB BODY	R ORB BC	ON FLAP	<u>\$</u>		(XE8F35)	·	US AUG 75	~
	REFERENCE DATA			- (· · · · · · · · · · · · · · · · · ·	: .					PARAMETRIC DATA	DATA		
SREF = 269 LREF = 47 PREF = 93 SCALE =	2690.0000 50.F1. 474.8000 IN. 936.0680 IN.	XMRP = 10 YMRP = ZMRP = 3	. 0000 . 0000 375. 0000	1N. X0 1N. X0 1N. X0	in in a training of the second		** * *	584 677	DDER =	10.000 16.300 10.000	SPOBRK = L-ELVN = MACH =	100	35.000 .000 1.100
ALPHA (1) =	-4.054 BETA	(A C 1) =	-3.845	МАСН	= 1.1012	•	299	6		706.74	RNA	м . # **.	1771.
SECTION C.	SECTION (1)BOOY FLAP UPPER		DEPE	DEPENDENT VARIABLE	RIABLE CP								
X/LB 1	1.0180 1.0450				 				••••				
PHI . 900.	41804218 404-				 						1.11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
=	* -4.062 BETA	. (€) ¥	.195	MACH	= 1.1012	. 6	= 599.90	8	٥.	. 708.74	T/NE	M T	<u>17.1</u> .
SECTION 1	SECTION (1)BODY FLAP UPPER	~	DEPE	DEPENDENT VARIABLE	RIABLE CP								_
X/LB	1.0180 1.0460		•				1.1,		74.1				
PH1 .000.	42164316 39894096				. n - n - n - n - n - n - n - n - n - n								
_	= -4.062 BETA	 fA (3) =	4.274	MACH	= 1.1012	8	s 599.90	96.	 Q.	706.74	RN/L	# #	171.
SECTION (SECTION (1) BODY FLAP UPPER	Ġ.	DEPE	DEPENDENT VARIABLE	RIABLE CP								
X/LB	1.0180 1.0450												
PH1 0000.04	42914436 39774045				na tua yi k	•.							
ALPHA (2)	023 BETA	TA (1) =	-3.863	MACH	= 1.0993	ø	- 599.08	80.	Q	708.12	X	#	.1793
SECTION (SECTION (1)BOOY FLAP UPPER	- Oc-	3430	NDENT VA	DEPENDENT VARIABLE CP								
X/LB	1.0180 1.0460				٠								
PHI . 000 .40.000	41894282 40644121	. ,											

	· · · · · · · · · · · · · · · · · ·		- -	<u>.</u>	<u> </u>	
DATE 13 FEB 76 TABULATED PRESSURE D	77ESSURE DATA - DATYB (AMES 11-073-1	1-073-1)			ď	PAGE 5556
	AMES 11-073(0A14B) -140A/B/C/F	-140A/B/C/R ORB BODY FLAP UP		(XEBF35)		_
ALPHA (2) #020 BETA (2) = .185	MACH = 1.0993	90.665 = 0	n O	708.12	RN/L	3. 193
SECTION (1)BODY FLAP UPPER DEPEN	DEPENDENT VARIABLE CP					Ł
1.0180 1.0460						_ ÷
PH] .00040674186						4
242.4 = (E 3) X138 420 = 1	MACH = 1.0993	80.682 - 0	Q.	708.12	1/2	= 3.1793
11800Y FLAP UPPER	DENT VARIABLE CP			· ·: 		
I.0180 1.0460						
PH1 .00042814376 40.00038463988					1 1 N	
ALPHA (3) # 3.952 BETA (1) = -3.863	MACH * 1.0983	0 = 598.70	a .	709.05	ž	3.1785
SECTION 4 DIBDOY FLAP UPPER	DEFENDENT VARIABLE CP					
1.0180 1.0460				and the second		
PHI					. •.	
ALPHA (3) = 3.952 BETA (2) = .189	MACH = 1.0983	0 598.70	*	709.06	RNAL	3.1785
SECTION (1)800Y FLAP UPPER	DEPENDENT VARIABLE CP	• • • • • • • • • • • • • • • • • • • •				
1.0180 1.0450						
PHI .00040474080 40.00041864397						
ALPHA (3) = 3.960 BETA (3) = 4.243	MACH = 1.0983	0 - 598.70	. # 0.	709.06	F8/L	3.1785
SECTION : 11800Y FLAP UPPER	DENT VARIABLE CP					
1.0180 1.0460		gy.				
PH1 .00041554248 .0.00041524364						

· ÷,

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PAGE 5557		3.1769				3.1769				= 3.1769				3.1753				3.1753			
<u>a</u>		RN/L				RN/L				RN/				RN/L				RN/L			
	(XEBF 35)	708.35				708.35				708.35				708.59				708.59			
		H								•				•				•			
		۵.				۵.				۵				•				<u>α</u>			,
	FLAP UP	598.57				598.57				598.57				598.75			÷	598.75			
<u>-</u>	B007													•				•			
11-073	/R ORB	G				ø				o				ø				O			
TABULATED PRESSURE DATA - DAI48 (AMES 11-073-1)	AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP UP	-3.862 MACH # 1.0987	DEPENDENT VARIABLE CP			.183 MACH = 1.0987	DEPENDENT VARIABLE CP			4.237 MACH = 1.0987	DEPENDENT VARIABLE CP			-3.842 MACH = 1.0987	DEPENDENT VARIABLE CP			.188 MACH = 1.0987	DEPENDENT VARIABLE CP		
TABULATED P	. '	BETA (1) =	UPPER	90	81 93	BETA (2) *	UPPER	50	គំព កំពុ	BETA (3) =	UPPER	6 0	66 74	BETA (1) =	UPPER	.60	13.7	BETA (2) =	UPPER	·60	.03 22
76	•	≖ 8.030	11BODY FLAP UPPER	1.0180 1.0460	43574381 4544 +.4693	■ 8.038	SECTION (1) BODY FLAP UPPER	1.0180 1.0450	4134'- 6514'- 4134'- 2554'-	× 8.037	SECTION (1)BODY FLAP UPPER	1.0180 1.0460	-,4451 -,4466 -,4774-	= 11.975	SECTION (1)BODY FLAP UPPER	1.0180 1.0460	45924686 47764937	* 11.985	SECTION (1)BODY FLAP UPPER	1.0180 1.0460	43184403 44764822
DATE 13 FEB		ALPHA CH)	SECTION (X/LS	PHI 000 : C4	ALPHA (4)	SECTION (X/1.8	EHG CCC CCC CCC CCC CCC CCC CCC CCC CCC C	ALPHA (4)	SECTION (XVLB	EIGINA	ALPHA (5)		GE ALI	PH1 .000 \$0.000	ALPHA (5)	SECTION (87/x	PH1 . 000 . 000
												0	F P00	K (ď∩∖	*14	* * !				

RN/L = 3.1753 (XEBF35) - 708.59 AMES 11-07310A148) -140A/B/C/R ORB BODY FLAP UP TABULATED PRESSURE DATA - CA148 (AMES 11-073-1) a 4.246 MACH = 1.0987 DEPENDENT VARIABLE CP ALPHA (5) = 11.981 BETA (3) = SECTION (1)BODY FLAP UPPER DATE 13 FEB 76

1.0180 1.0460

X/LB

-.4513 -.4581 -.4423 -.4844

PH? . 000 40. 000

PAGE 5558

994d	(XEBF36) K 05 AUG 75)	PARANETRIC DATA	RUDDER = 10.000 SPOBRK = 35 J00 BOFLAP = 16.300 L-ELVN = ""	P = 1056.6 RN/L = 3.5806				P = 1056.5 FB/L = 3.5806				P = 1056.6 RN/L = 3.5806				P = 1057.8 RN/L = 3.577*			-
PRESSURE DATA - DAINB (AMES 11-073-1)	AMES 11-073:0A148) -140A/B/C/R ORB BODY FLAP UP		1076.6800 IN. XO .0000 IN. YO 375.0000 IN. ZO	-3.844 MACH = .90163 0 = 601.33	DEPENDENT VARIABLE CP			.194 MACH = .90163 0 = 601.33	DEPENDENT VARIABLE CP			1 4.272 MACH = .90163 . 0 = 691.33	DEPENDENT VARIABLE CP			-3.866 MACH = .90027 Q = 600.16	DEPENDENT VARIABLE CP		
DATE 13 FEB 76 TABULATED		REFERENCE DATA	SREF = 2690.0000 SO.FT. XMRP = LREF = 474.8000 IN. YMRP = 6755 = 935.0580 IN. ZMRP = 5CALE = 03500	ALPHA (1) = -4.063 BETA (1) =	SECTION (1) BODY FLAP UPPER	X/LB 1.0180 1.0450	PHI .00030783167 .00.003575	ALPUA (1) = -4.055 BETA (2) =	SECTION (1) BODY FLAP UPPER	X/LB 1.0180 1.0450	PH1 .00030523057 +0.00030533211	ALPHA (1) = -4.060 BETA (3) =	SECTION (1) BODY FLAP UPPER	X/LB 1.0180 1.0460	PHI .00029642864 +0.00029913175	ALPHA (2) *	SECTION (1)BODY FLAP UPPER	X/LB 1.0180 1.0950	PHI .00031723191 .00030543208

PAGE 5550	•	RN/L = 3.5774				FBUL = 3.5774				FBV/L = 3.5740				FRVL = 3.5740				FN/L * 3,5740			· . · ·
	(XEBF#6)	= 1057.8				- 1057.B				= 1058.5				- 1058.5				= 1058.5			
73-1)	XAB BCOY FLAP UP	Q • 500.16 P		_		1 = 500.18 P				3 = 599.24 P				599.24 Р				3 - 599.24 P			
PRESSURE DATA - 0A148 (AMES 11-073-1)	AMES 11-073(0A148) -140A/B/C/R ORB BCDY FLAP UF	.183 MACH = .90027 Q	DEPENDENT VARIABLE CP			4.248 HACH = .90027 0	DEPENDENT VARIABLE CP	•		-3.873 MACH * .89927 G	DEPENDENT VARIABLE CP			. 185 HACH89927 Q	DEPENDENT VARIABLE CP			4.242 MACH = .89927 0	DEPENDENT VARIABLE CP		
DATE 13 FEB 76 TABULATED PRI	- -	A,PHA (2) + .092 BETA (2) +	SECTION (1) BOOY FLAP UPPER	X/LB 1.0/80 1.0460	PH1 .0002975 +.3100 +0.00027842897	ALPHA (2) # .085 BETA (3) #	SECTION (1)BODY FLAP UPPER	X/LB 1.0180 1.0450	PH1 .0002981 +.3040 .000.0042958	ALPHA (3) = 3.973 BETA (1) =	SECTION (1)BODY FLAP UPPER	X/LB 1.0180 1.0460	PHI . DD0 3146 3169 . 0. DD0 3032	ALPHA (3) = 3.981 BETA (2) =	SECTION (1) BODY FLAP UPPER	X/LB 1.0180 1.0460	PH1 . d00 3030 3177 +0. d00 2757 2739	ALPHA (3) = 3.986 BETA (3) =	SECTION (1)BODY FLAP UPPER	3.44	PHI 00029593136

DATE 13 FEB 76 TABULATEO, PR	PRESSURE DATA - OA148 (AMES 11-073+1) AMES 11-073(0A148) -140A/B/C/R ORB BOOY FLAP UP	11-073-1)	OY FLAP UP			(XEBF.36)	<u>a.</u>	PAGE 5561
ALPHA (4) # 8.050 BETA (1) #	-3.862 MACH = .89970	o	* 599.92	e.	, #	1058.7	N/N	3.578 1
SECTION (1) BOOY FLAP UPPER	DEPFINDENT VARIABLE, CP							
X/L9 1.0180 1.0460								
PHI .00031563229 40.00029603026								•
ALPHA (4) = 8.064 BETA (2) =	.184 MACH - 89970	8	38.98	Q.		10=9.7	1/AE	3.5781
SECTION : 13BOOY FLAP UPPER	DEPENDENT VARIABLE CP							
X/LB 1.0150 1.0460		i y Le						
PH1 .95030573128 90.6592716 +.2750		· .·						
ALPHA (4) = 8.051 BETA (3) =	4.239 MACH = .89970	O	* 599.92	۵.		1058.7	JAR.	= 3.5781
SECTION (1) BODY FLAP UPPER	DEPENDENT VARIABLE CP							
X/LB 1.0180 1.0450								
PHI 59913077 40.00025232719								
ALPHA (5) = 11.931 BETA (1) =	-3.854 MACH = .89977	0	s 600.28	۵		1059.2	PN/L	3.5829
SECTION (11800Y FLAP UPPER	DEPENDENT VARIABLE CP							
X/LB 1.0180 1.0950 '								•
Pr.1 .000 - 2949 - 3031 40.000 - 3161 - 3272					•			
ALPHA (5) = 11.945 BETA (2) =	. 158 MACH 89977	0	620.28	۵.	•	1058.2	1/NE	* 3.5829
SECTION (1)BODY FLAP UPPER	DEPENDENT VARIABLE CP							
X/LB 1.018C 1.0460		·						
PH1 .00028432843 40.00029383103								

89977

4.259 MACH

ALPHA (51 = 11.935 BETA (3)

DATE 13 FEB 75

SECTION (INBOOY FLAP LAPER

1.0380 1.0460

DEPENDENT VARIABLE CP

TABULATED PRESSURE DATA - 04148 (AMES 11-073-1) 語言 田田 田田 田山大口 AMES 11-07310A1481 -146A/B/C/R ORB BODY FLAP UP

C 25 AUG 175 (XE9F37)

PARAMETRIK DATA

a 14.16726 86.00 000 000 000 Ž 3385.E 19.009 18.300 10.003 RUDDER BOFLAP R-ELVN u 595.17 DEPENDENT VARIABLE CP MACH # 1075.6800 IN. XO # .0000 IN. YO # 375.0000 IN. ZO -7.848 BETA (13 = XMED YMHD ZMRP REFERENCE DATA SECTION 1 13500Y FLAP UPPER 2699.71. 474.8000 1N. 935.0680 1N. ALPHA TITTE - PLOPE

1.0180 1.0460

560.17 500.17 CJ +6965. ■ ALPHA 1 11 = -4.025 BETA - . 2552 - . 2962

DEPENDENT VARIABLE CP SECTION 1 1:300Y FLAP UPPER 1.0180 1.0450 X/1.B

-.2718 - 2495 - 2595 40.000 40.000 ĭ

DEPENDENT YARIABLE CP MACH . 184 33.4 SECTION (1)BODY FLAP (PPER ALPHA (1) = -3.836

1.0180 1.0+60

-.2330 -.253i -.2573 1000 Tak T a

2385.6 Φ. 2008 2008 ø 5969 DEPENDENT VARIABLE CP 4.266 MACH **8**€ : **A** ALPHA (1) + -3.930

4.8725

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F. 8726

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2385.8

595.15

1.0180 1.0460

- 2423 - 23453 .000 40.000

-3.846 MACH

2385.8

BETA

SECTION I IJBODY FLAP UPPER

X7/B

-.2362

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DATE 13 FEB 76	3 76	1	TABULATED P	PRESSURE DATA - DAINB (AMES 11-073-1)	DATA - 0	/) 8+1¥	WES 11	-073-1	_					à	PAGE 5564	£92
				AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP UP	97310A14	18) -140/	NB/C/R	OR 80	94 FL	an ar			(XEBF37)			
ALPHA (1)	-3.945	BETA	53 =	8.339	MACH	• 5969+	ტ	9	i)	595.14	Q .		2385.8	RA/L	*	4.6.26
SECTION (SECTION (1) BOOK FLAP UPPER	P UPPER		DEPE	WDENT VA	DEPENDENT VARIABLE CP	e,									
X/LB	1.0180 1.	1.0450														
PH1 .000 *0.000	-, 2356 -,	2507 2978														
ALPHA (2)	030	BETA		-7.898	MACH	- 59652	255	0	in	594.31	•		2385.8	1/NE	<i>*</i>	£.879.
SECTION (SECTION (1) BODY FLAP UPPER	P UPPER		DEPE	MOENT VA	DEPENDENT VARIABLE CP	۵,									
X/LB	1.0180 1.	1.0460					•								`	
PH1 .000 40.000	- 2894 -	2842 2785		-												
ALPHA (2)	• 040.	BETA	(()	-3.863	MACH	- 59652	32	0	6	594.31	۵.	*	2385.8	778	±	4.8794
SECTION (SECTION (1)BODY FLAP UPPER	P UPPER		DEPE	VDENT VA	DEPENDENT VARIABLE CP	<u>a.</u>			,						
x/LB	1.0180 1.	1.0460								•						
PH! .000 .40.000	2768	2863 2622														
ALPHA (2)	±01.	BETA	(3) =	.181	MACH	- 59652	25	ø	in I	594.31	۵.	(i)	2385.8	PR/L	±	4.879 4
SECTION (SECTION (1)BODY FLAP UPPER	P UPPER		DEPE	VDENT VA	DEPENDENT VARIABLE CP	<u>o.</u>			٠						
X/LB	1.03180 1.	1.0450														
7H1 .000 .40.000	2554	2542 2816														
ALPHA (2)	- .162	BETA	# (1	4.244	HACH	* .59652	325	ø	is I	594.31	Δ.	ru #	2385.8	RN/L	s H	4.8794
SECTION (SECTION (1) BODY FLAP UPPER	M3ddn d		DEPE	VDENT VA	DEPENDENT VARIABLE CP	<u>e</u> ,			• .						
X/LB	1.0180 1.	1.0450									٠.	•				
PH1 .000 40.000	-, 2334 -,	2397 2957														

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DATE 13 FEB 76 TABULATED I	TABULATED PRESSURE DATA - OATHB (AMES 11-073-1)	073-1)		PAGE 5556	-
	AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP UP	ORB BODY FLAP UP	(XEBF37)		- -
ALPHA (3) # 4,049 BETA (5) =	8.284 MACH = .59620	0 = 593.73 P	2386.0	RN/L = 4.88+0	
SECTION (1)BODY FLAP UPPER	DFPENDENT VARIABLE CP				
X/LB 1.0180 1.0460					
PHI .00023642388 40.00025132819					
ALPHA (4) = 7.972 BETA (1) =	-7.894 NACH = .59666	0 • 594.55 P	- 2385.8	RN/L = 1.8889	
SECTION (1)BODY FLAP UPPER	DEPENDENT VARIABLE CP				
X/LB 1.0180 1.0460					
PHI .00028493061 +0.00025842768					
ALPHA (4) = 7.984 BETA (2) =	-3.864 MACH = .59666	0 * 594.55 P	= 2385.8	RN/L = 4.8889	
SECTION (1)BODY FLAP UPPER	DEPENDENT VARIABLE CP				
X/LB 1.0180 1.0460					
PHI .00025962787 .0.00025722780	-	•			
ALPHA (4) = 7.990 BETA (3) =	.171, MACH59666	0 = 594.55 P	= 2385.8	RN/L * 4.8889	
SECTION (1)BODY FLAP UPPER	DEPENDENT VARIABLE CP				
X/LB 1.0180 1.0460				•	
PH1 .00025052628 40.00023712560		10 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2			
ALPHA (4) = 7.990 BETA (4) =	4.234 MACH = .59666 0	. 594.55 P	= 2385.8	FN/L = 4.8889	
SECTION (1)BODY FLAP UPPER	DEPENDENT VARIABLE CP				
X/LB 1.0180 1.0460				ue:	
PHI .00024672635 40.00022742529				n Mar	

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PAGE 5567		RN/L = 4.8889				1/L = 4.8888				1/L = 4.8888				RN/L - 14,8888				RN/L = 4.6898			
<u> </u>	(XEBF37)	= 2385.8 RN				= 2385.8 RN/L				= 2385.8 RN/L				= 2385.8 RN				= 2385.8 RN			
3-1)	BOOY FLAP UP	= 594,55 P				= 594.79 P				= 594.79 P				* 594.79 F				- 594.79 P			i
PRESSURE DATA - OAIYB (AMES 11-073-1	AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP UP	8.288 MACH = .59666 Q	DEPENDENT VARIABLE CP			-7.860 MACH = .59676 Q	DEPENDENT VARIABLE CP			-3.846 MACH = .59676 0	DEPENDENT VARIABLE CP			.172 MACH = .59676 0	DEPENDENT VARIABLE CP		•	4.243 MACH = .59676 Q	DEPENDENT VARIABLE CP		
DATE 13 FEB 76 TABULATED P		ALPHA (4) = 7,988 BETA (5) =	SECTION (1) BODY FLAP UPPER	X/LB 1.0180 1.0460	PH1 .00023872524 .000025242869	ALPHA (5) = 11.959 BETA (1) =	SECTION (1) BODY FLAP UPPER	X/LS 1.0180 1.0460	PHI .00024772534 +0.00028363122	ALPHA (5) * 11.98: BETA (2) *	SECTION (1'BODY FLAP UPPER	X/LB 1.0180 1.0460	PHI .00024362542 40.00026482804	ALPHA (5) = 11.991 BETA (3) =	SECTION (1) BODY FLAP UPPER	X/LB 1.0130 1.0460	PH: .00024192625 40.00024432642	ALPHA (5) = :1.985 BETA (4) =	SECTION (1)BODY FLAP UPPER	X/LB 1.0180 1.0460	PH1 .000 247+ 268+ 40.000 2452 2722

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<u> </u>	S 11-073(0A148) -140A/B/C/R ORB BODY FLAP UP		DEPENDENT VARIABLE CP		
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TABULATED PRESSURE DATA - OAIH8 (AMES 11-073-1)		BETA (5) =			
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76		11	<u>.</u>	1.0180 1.0450	2428 2428
DATE 13 FEB 76		ALPHA (5) = 11.975	SECTION (1)BODY FLAP UPPER		
13			8		000
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PACE 5569	(XEBF38) (05 AUG 75	PARAMETRIC DATA	10.000 SPDBRK # 85.000 16.300 '-ELVN # 10.000 10.000 MACH # 1.500	* 441.83 RN/L * 2.91 2				= 441.83 RN/L = 2.9112				- 441.83 RN/L - 2.9112				= 441.36 RN/L = 2.9073			
			RUDDER BDFLAP R-ELVN	۵				Q.				٥				۵.			
	Y FLAP UP			= 500.20				= 600.20				- 600.20				= 599.59			
11-073-1	./R ORB BOD			0				o				ø				o			
PRESSURE DATA - OAI48 (AMES 11-073-1	AMES 11-073(04148) -140A/B/C/R ORB BODY FLAP UP		1076.6600 IN. XO .0000 IN. YO 375.0050 IN. ZO	-3.853 MACH = 1.3931	DEPENDENT VARIABLE CP			.193 MACH = 1.3931	DEPENDENT VARIABLE CP			4.276 MACH * 1.3931	DEPENDENT VARIABLE CP			-3.869 MACH * 1.3931	DEPENDENT VARIABLE CP		
TABULATED F		æ	XMRP = 10 YMRP = ZMRP =	TA (1) =	œ			TA (≥) =	œ			TA (3) =	o.			TA (1) =	Ox.		
DATE 13 FEB 76		REFERENCE DATA	SREF = 2590.0000 50.FT. LREF = 474.8000 iN. BREF = 936.0690 iN. SCALE = 0360	ALPHA (1) = -4.002 BETA	SECTION (1)BODY FLAP UPPER	X/LB 1.01B0 1.0460	PH1 .GCO31153055 90.00031783220	ALPHA (1) = -3.940 BETA	SECTION (1)BODY FLAP UPPER	X/LB 1.0180 1.0460	PH1 .00030933043 .00.00435633505	ALPHA (1) = -3.953 BETA	SECTION (1)BODY FLAP UPPER	X/LB 1.018C 1.0460	PHI .00032283173 .00.00434833644	ALPHA (2) = .030 BETA	SECTION (1)BODY FLAP UPPER	X/LB 1.0180 1.0450	PH1 .00032373252 +0.00034253538

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		} 		•	2.9073				2.9108				2.9108				2.9108			
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=	(XEBF38)	8. I #			#1.36				441.36				441.38			-	441.36			
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e e e e e e e e e e e e e e e e e e e	FLAP UP	599.59		en e	599.59			n e e	599.70				599.70				599.70			
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	AMES 11-073(0A148) -140A/B/C/R ORB BODY	•		,	0				G				a				0			
. — — —	A/B/C/	931	<u>e</u>		931	8			1.3932	- ይ			1.3932	8			1.3932	8		
9	-140	- 1.3931	ABLE		1.3931				1.3	ABLE			1.3	IABLE			1.3	1 ABLE		
- 040	0A148	5	DEPENDENT VARIABLE CP		MACH	DEPENDENT VARIABLE		•	MACH	DEPENDENT VARIABLE CP			MACH	DEPENDENT VARIABLE CP			MACH	DEPENDENT VARIABLE		
E DATA	1-073	3 MACH	PENDEN	•		PENDEN				PENDE				PENDE				PENDE		
ESSUR	WES 1	. 183	ם		₹. 205	- B			-3.872	2			. 183	8			4.246	8		
TABULATED PRESSURE DATA - DATH8 (AMES 11-073-1		٠ -			e Fi				•				ا ا				3) •			
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		BETA	SECTION (1)BODY FLAP UPPER	- 20 20 20 20 20 20 20 20 20 20 20 20 20 2	BETA	SECTION (1) BODY FLAP UPPER	460	282 548	BETA	SECTION (11800Y FLAP UPPER	460	284 678	BETA	SECTION (1) BOOY FLAP UPPER	460	3256 3562	BETA	SECTION (1)BODY FLAP UPPER	1.0460	
: -		.036	r FLAP	1.0180 1.0460 32033208 34233558		r FLAP	1.0180 1.0460	13282 33548	3.894	r FLAP	1,0180 1.0450	+3284)3678	3.895	T FLAP	1.0180 1.0450	 w.w.	3.905	Y FLAP		
DATE 13 FEB 76 TABUL		*	1. BOD	1.0180		13800	1.018	3261 3478	*	13800	1.018	-,3324		13900	1.018	-, 3240 -,3415		13800	1.0180	
DATE 13 FEB 76	 	ALPHA (2)	2 20	900	_	3		PH1 .000 +0.000	ALPHA (3)	Š		900	ALPHA (3)	2 20 20		PHI .000 *0.000	ALPHA (3) =	Ž		E.
		≤	13	× LB	₹	72	X/IB	£ 5	¥	£¢ī	X/LB	£ 3	PHA	ECT	X/LB	£ 3	₹	EC.7	X/LB	Ŧ

DATE 13 FEB 76 TAE	BULATED PR	IABULATED PRESSURE DATA - DAIWB (AMES 11-073-1)	1148 (AMES 1)	1-073-1						PAGE 557	
	₹	AMES 11-07310A148) -140A/B/C/R ORB BODY FLAP UP	11-140A/B/C/F	7 ORB BOD	r FLAP UP		2	(XEBF38)		_	<u>.</u>
ALPHA " # 1 = 7.922 BETA		-3.851 MACH	* 1.3932	a	s 599.39	۰ ۵	3	441.12	RN/L	2.9102	3.02
SECTION I LIBOON FLAP UPPER		DEPENDENT VARIABLE CP	HABLE CP								- -
X/LB 1.0180 1.0460						,					<u>.</u> -
PHI .0003514 +.3533 40.00036343566											_
ALPHA (4) = 7.892 BETA	(P) =	. 182 MACH	- 1.3932	G	. 599.39	۵	**	51.14h	1/R2	= 2.9102	501
SECTION (11800Y FLAP UPPER		DEPENDENT VARIABLE CP	HABLE CP						•		
X/LB 1.0180 1.0460				٠							
PH1 .00032863314 40.00035533721											
ALPHA (4) = 7.830 BETA	(3) =	4.245 MACH	= 1.3932	o	599.39	۵	-	441.12	RN/L	= 2.9102	102
SECTION 1 1180DY FLAP UPPER		DEPENDENT VARIABLE CP	I ABLE CP								
X/LB 1.0180 1.0460											
PH1 .00035883581 .00.00934453557											
ALPHA (5) = 11.870 BETA		-3.851 MACH	= 1.3941	•	. 600.12	۵	*	441.12	RN/L	= 2.9072	57.0
SECTION (1)BODY FLAP UPPER		DEPENDENT VARIABLE CP	HABLE CP								
X/LB 1.0180 1.0+60											
PHI .00035463612 49.00037373926											
ALPHA (5) = :1.980 BETA	± (♂)	.187 MACH	1.3941		= 600.12	۵	₹ *	441.12	7. 1/ NE	₽.9	2.9072
SECTION (1:BODY FLAP UPPER		DEPENDENT VARIABLE CP	MABLE CP								
3/LB 1.0180 1.0450											
PH1 .00034513472 40.00037073877		·									

DATE 13 FEB 76	3 76		1	BULAT	8	RESSURE	DATA	8	TABULATED PRESSURE DATA - OAIWB (AMES 11-073-1)	S 11-0	73-1 5			,			à	PAGE 5572	572
						WES 11	-073	84140	AMES 11-073(0A148) -140A/8/C/R ORB BODY FLAP UP	3/C/R 04	38 BODY	F.	5	v	_	(XEBF38)	v	_	
ALPHA (5) = 11.873	=	.873	BETA	(2)		4.255	¥	E	4.255 MACH * 1.3941	0		• 2 00	600.12	a.	7	441.12	- J/88/	™	2.9072
SECTION (1)BODY FLAP UPPER	1) BODY	FLAP 1	PPER			DE.P	ENDEN	T VAR	DEPENDENT VARIABLE CP										
X/LB	1.0180 1.0450	1.04	õ																
000.04 000.04	3783 3494	3844	7 9			·								. 					
ALPHA (6) = 15.853	. 15.	.853	BETA	(1)		-3.856		MACH	= 1.3929	8			599.99	Q.	3	441.82	ž	a I	2.9183
SECTION (1) BOOY FLAP UPPER	1) BODY	FLAP 1	PPER			2	ENDEN	T VAR	DEPENDENT VARIABLE CP										
X/LB	1.0180 1.0460	1.046	င္ဟ																
PH1 .000 +0.000	3484 37!9	3553	53 50																
ALPHA (6) # 15.866	# 75	.866	BETA	€ ::		. 185	Æ	3	.185 MACH * 1.3929	0			599.99	۵.	3·	441.82	Z Z	e.	2.9183
SECTION (1)BODY FLAP UPPER	1.1B00Y	FLAP 1	нз4			95	PENDEN	T VAR	DEPENDENT VARIABLE CP										
X/LB	1.0180 1.0460	1.04	6 6																
PH1 .000 46.000	3644 3694	3772	ភូស																
ALPHA (6) = 15.858	# 15	858	BETA	£ 3		4.285	¥	HACH	= 1.3929	0		ði n	599.89	۵.	3·	441.82	Z.	U	P.9183
SECTION (1) BODY FLAP UPPER	DBCDY	FLAP 1	PPER.			20	ENDEN	T VAR	DEPENDENT VARIABLE CP										
X/LB	1.0180	1.0180 1.0460	8																
PH1 .000 .40.000	3851	3857 3896	£ %																

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05 AUG 75 PAGE 5573 (XEBF3S) (

AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP UP

3.0146 SPDBRK * L-ELVN * ₹ Z ž ž ž PARAMETRIC DATA 10.000 16.300 10.000 551.57 551.57 551.57 551.10 RUDDER = BOFLAP = R-ELVN = **Q** 599.79 599.79 **= 1.246**4 DEPENDENT VARIABLE CP DEPENDENT VAR. 3LE CP DEPENDENT VARIABLE CP DEPENDENT VARIABLE CP -3.847 MACH 4.277 MACH TACH MACH 1076.6800 IN. XO .0000 IN. YO 375.0000 IN. ZO .199 -3.858 ALPHA (1) = -3.991 BETA (1) = ລິ 3 XMRP YMRP ZMRP BETA ALPHA (11 = -3.988 BETA BETA SECTION (1) BODY FLAP UPPER REFERENCE DATA SECTION (1) BODY FLAP UPPER SECTION (1) BODY FLAP UPPER SECTION (11800Y FLAP UPPER 1.0180 1.0450 1.0180 1.0450 -.3451 -.34**53** -.3715 -.3990 -.3636 -.3673 -.6957 -.4219 1.0180 1.0460 1.0180 1.0460 ALPHA (1) = -3.979 .058 -.3615 ALPHA (21 = PH1 .000 40.000 000 - 0+ 000 - 000 . 000 40.000 SCALE = A/LB X/LB X/LB X/18

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DATE 13 FEB 76 TABULATED PI	PRESSURE DATA - OAINB (AMES 11-073-1)	1-073-1	<u>.</u>				P.ACKE 5574
	AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP UP	R ORB BODY	an avil.		(35.88.35)		
ALPHA (2) = .062 BETA (2) =	.177 MACH = 1.2468		599.66	۵	551.10	Ę.	3.010
SECTION (1)800Y FLAP UPPER	CEPENDENT VARIABLE CP						
1.0130 1.0460							
PHI .000 - 3444 - 3539 40.000 - 3749 - 3981							
ALPHA (2) = .021 BETA (3) =	4.254 MACH = 1.2468	•	393.66	٩	. 951.10	7/12	3.0101
SECTION (1)BODY FLAP UPPER	CEPENCENT VARIABLE CP						
X/LB 1.0180 1.0460							
14d 1500 - 1535 - 1638 1624 - 15365 - 16350							
ALPHA (3) = 3.934 BETA (1) =	-3.873 MACH = 1.2459	•	599.77	a.	551.10	1/26	3.5089
SECTION (1)8307 FLAP UPPTR	DEPENDENT VARIABLE CP						
1.0180 1.0460							
PH1 .GDD37273757 940.DD239994184							
ALPHA (3) = 3.935 BETA (2) =	.189 MACH = 1.2469	•	599.77	۵	• 551.10	##/F	= 3.0099
SECTION (1)BODY FLAP UPPER	DEPENDENT VARIABLE CP						
1.0150 1.0460							
PH1 .00036443781 .0000039374221							
ALPHA (3) = 3.939 BETA (3) =	4.242 MACH = 1.2469		599.77	۵.	551.10	PN/L	3.0099
SECTION (DECOY FLAP UPPER	DEPENDENT VARIABLE CP						
1.0180 1.0460							
PHI .0C037473813 .0.00039714220							

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DATE 13 FEB 76 IABULAIED	J PRESSURE LAIA + UAIAB 1 AMES 11-075-1	1 1-6/0-11			•
	AMES 11-073(04148) -1404/8/C/R ORB BODY FLAP UP	CON ORB BODY FLAP	<u>e</u>	(XEBF339)	-
ALPHA (4) = 7.936 BETA (1) =	= -3.853 MACH = 1.2467	0 = 593.84	a.	# 551.34	RN/L # 3,0131
SECTION (1) BODY FLAP UPPER	DEPENDENT VARIABLE CP				
X/LB 1.0180 1.0460					
FH1 .000 4028 - 4090 40.000 - 4262					
ALPHA (4) = 7.897 BETA (2) =	■ 1.2457	. 599.8¥	a E	• 551.3¥	RN/L = 3.0131
SECTION / 11BODY FLAP UPPER	DEPENDENT VARIABLE CP				
X/L9 1.0180 1.0460					
985 3885 000. 99 1454 000. 146					
ALPHA (4) = 7.878 BETA (3) =	= 4.243 MACH = 1.2467	. 599.84	۵. خ	¥.135 *	BN/L = 3.0131
SECTION (1)BODY FLAP UPPER	DEPENDENT VARIABLE CP				
X/L9 1.0:90 1.0450					
PHI .000. .000. .4140114000. .000.000					
ALPHA (5) = 11.869 BETA (1) =	= -3.849 MACH = 1.2475	0 = 500.05	06 P	* 550.87	RN/L = 3.0127
SECTION (1)BODY FLAP UPPER	DEPENDENT VARIABLE CP				
X/LB 1.0180 1.0460					
745 1000 - 1424. 1469 1000 - 1424. 1469					
ALPHA (5) = 11.810 SETA (2) =	= .187 MACH = 1.2475	0 = 600.05	05 P	s50.87	RN/IL = 3.0127
SECTION (1)800Y FLAP UPPER	DEPENDENT VARIABLE CP	;			
X/L3 1.0180 1.0460					
G004 - 8C04 - 000					

DATE 13 FEB TS TABULATED PRESSURE DATA + DATHB (AMES 11-073-1)	.073-:)				Ω.	- 18 BB - 18 18 18 18 18 18 18 18 18 18 18 18 18	
AMES 11-373(0A1+8) -140A/B/C/R ORB BODY FLAP UP	ORB BODY FL	AP UP		(XE95+0)	÷ H	18 CO 78)	٠.
REFERENCE DATA				3 Ha_3~YaYd	DATA		
SSEF * 2690.3033 SQ.FT. XMPP * 1676.6803 IN. XO LREF = 474.5003 IN. YMPP = .0000 IN. YO BREF = 936.0680 IN. ZMRP * 375.0000 IN. ZO SCALE = 0360			RUDDER = BDFLAP = R-ELVN =		# # # # * * # * * * # * * * # * * * * # * * * # * * * * * # * * * * * * * # * * * * * * * * * * # * * * * * * * * * * * # * * * * * * * * * * * * * * * * * * *	860 600 600 600 600 600 600 600 600 600	'.c.O
ALPHA [1] = -3.999 BETA [1) = -3.842 MACH = 1.1017 0	0	601.13	Ω.	# 707.47	₩ ₩	3.1883	£
SECTION (1) BODY FLAP UPPER							
XAB 1.0180 1.0460							
1Ha 155 - 1854 - 1853 1900 - 1879 - 1877							
ALCH A 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	(C)	501.11	Ω.	107.47	Ž	* 3, 1883	23
SECTION (1) BODY FLAP UPPER DEPENDENT VARIABLE OF							
1.0180 1.0450							
(Fe) (Fe) (Fe) (Fe) (Fe) (Fe) (Fe) (Fe)							
ALPHA : 13 = -3.995 GETA (3) = 4.277 MACH = 1.1017 0	9 #	601.11	۵	TH. LOT =	<u>.</u> 1	3.1883	33
SECTION (1:300Y FLAP UPPER DEPENDENT VARIABLE CP							
X/ZB 1.0185 1.0460							
71667 - 25167 - 030736 20167 - 25167 - 030736							
ALPHA (2) = .015 BETA (1) = -3.867 MACH = 1.1001 0	0 ± 5	500.08	C.	= 708.37	.1 Ž	* 3.1860	5
SECTION F 1980DY FLAP UPPER							
47.B 1.0100 1.0150							
2124'- 1614'- 000'SH 2124'- 1614'- 000'SH							

DATE 13 FEW 76 TABULATED F	PRESSURE DATA - DAI48 (AMES 11-073-1)	073-1)			ď	PAGE 5578
	AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP UP	ORB BOOY FLAP UP		(XEBF40)		
ALPHA (2) = .018 BETA (2) =	.181 MACH + 1.1001	0 = 600.08	۵	- 708.37	RN/L	3.1860
SECTION (1)BODY FLAP UPPER	DEPENDENT VARIABLE CP					
X/LB 1.0180 1.0460						
FH1 .00039914135 40.00042364631						
ALPHA (2) = .012 BETA (3) =	4.250 MACH = 1.1001	0 = 600.08	Q.	- 708.37	FN/L	3.1860
SECTION (1)BODY FLAP UPPER	DEPENDENT VARIABLE CP					
X/L9 1.0180 1.0460						
PHI .00040674182 40.00046104639						
ALPHA (3) = 3.919 BETA (1) =	-3.865 MACH = 1.1005	Q = 600.31	۵	- 708.1 th	FN/L	3.1848
SECTION (1) BODY FLAP UPPER	DEPENDENT VARIABLE CP					
X/LB 1.0180 1.0460						
PHI 000. 000.04 00.000.						
ALPHA (3) = 3.917 BETA (2) =	.178 MACH = 1.1005	a = 600.31	Q.	- 708.14	1/12	3.1848
SECTION (1)BODY FLAP UPPER	DEPENDENT VARIABLE CP					
X/LB 1.018D 1.045D						
PHI .000.04 .000.04 .000.04						
ALPHA (3) = 3.924 BETA (3) =	4.244 MACH = 1.1005	0 = 600.31	a.	₹ 706.14	RN/L	3.1848
SECTION (1)BODY FLAP UPPER	DEFENDENT JARIABLE CP					
X/LB 1.0180 1.0460						
PHI .0004326 .00046054336			i			

A C3 FFR 75 TABULATED F	PRESSURE DATA - DAI'48 (AMES 11-073-1	1-073-1)			-	PAGE 5579	6 5
	AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP UP	R ORB BODY FLAP UP		(XEBF40)			
ALPHA (4) = 7.901 BETA (!) =	-3.850 MACH = 1.1015	Q = 600.67	œ	= 707.22	RN/L	m m	3.1834
SECTION (1) BODY FLAP UPPER	DEPENDENT VARIABLE CP					-1 may 14 & 14 %	
X/LB 1.0180 1.0450						ortestativase are	
1Hd 1Hd 1Hd 1Hd	MACON SULP					r at — Billion Holes (2000)	
ALPHA (4) = 7.905 BETA (2) =	.181 MACH = 1.1015	0 = 600.67	۵.	= 707.22	RN/L	'n	3.1834
SECTION : 1:BODY FLAP UPPER	DEPENDENT VARIABLE CP					, gen : g = <u>name , g</u> p , to	
X/LB 1.0180 1.0460						and the second	
PHI .C.0045264651 40.00047554658						. 4/10 **	
ALPHA (4) = 7.904 BETA (3) =	4.239 MACH = 1.1015	0 = 600.67	۵	= 707.22	RN/L	M H	3.1834
SECTION (1)BODY FLAP UPPER	DEPENDENT VARIABLE CP					. 400 1 50 1 12 1	
X/LB 1.0180 1.0460						uanton en e	
PHI 1444.7 000. - 000.004 4824 000.004						nggan dan salamga ang	
ALPHA (5) # 11.906 BETA (1) =	-3.844 MACH = 1.0995	80.009 = 0	۵.	- 709.07	RN/L	m m	3.1837
SECTION (1:8CDY FLAP UPPER	DEPENDENT VARIABLE CP	والمراد الما					
X/LB 1.0180 1.6460		ANATOMY (16)				•	
948 - 500 - 4670 - 4722 - 40.000 - 4807 - 4937	2	note or address subject subject		•			
ALPHA (5) = 11.808 BETA (2) =	.188 MACH = 1.0995	e0.009 = 0	٥.	- 709.07	RN/L	m m	3.1837
SECTION (1) BODY FLAP UPPER	DEPENDENT VARIABLE CP	en e productivo de la constanta de la constant				٠	
X/LB 1.0180 1.0450		a monage years of		•			
PHI .000 . 4478 - 4825 40.000 - 4624 - 4825				··· •			

= 3.1837 PAGE 5580 RNY (XEBF40) 709.07 = 600.08 AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP UP TABULATED PRESSURE DATA - DAINB (AMES 11-073-1) ≥ 1.0995 DEPENDENT VARIABLE CP 4.250 MACH BETA (3) = SECTION (1)BODY FLAP UPPER 1.0180 1.0460 -.4695 -.4718 -.4600 -.4841 ALPHA (5) = 11.865 DATE 13 FEB 76 PHI .000 40.000 X/LB

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DATE 13 FEB 75	TABULATED		DATA -	0A148	PRESSURE DATA - DAI48 (AMES 11-073-1	1-073-1	_					α.	PAGE 5	5581
		AMES 11	-07310A1	- (<u>B</u> +	AMES 11-07310A148) -140A/B/C/R ORB BODY FLAP UP	R ORB B	λQ.	LAP UP			(XE8F41)	_	05 AUG 75	5
REFERENCE DATA	⋖									FA	PARAMETR1C	DATA		
SREF = 2690,0000 SQ.FT. LSE7 = 474.8000 IN. BREF = 935.0680 IN. SCALE = .0300	XMRP = ZMRP = ZMRP =	1076.6800 .0000 375.0000	N. XO N. XO N. XO						RUDDER ** BOFLAP ** R-ELVN **		10.000 10.000	SPDBRK = L-ELVN = MACH =	8 00	85.000 10.000 .900
ALPHA (1) = -3.997 BE	BETA (1) =	-3.840	MACH		.89993	o	•	599.67	۵	,	1057.8	RNIL	M	3.5780
SECTION (1)BODY FLAP UPPER	ge;	OEP	DEPENDENT VARIABLE	AR I AB	ILE CP									
X/LB 1.0180 1.0460														
PHI .00035213481 40.00039714333											•			
ALPHA (1) = -3.991 BE	9ETA (2) =	. 189	MACH		.89993	a		599.67	C		1057.8	FN/L	m m	3.5780
SECTION (11BODY FLAP UPPER	Œ	3d 30	DEPENDENT VARIABLE	AR I AB	LE CP									
X/LB 1.0130 1.0%60														
PH! .00035493377 .000.04														
ALPHA (1) = -3.992 BE	BETA (3) =	11.274	MACH		.89993	ø		599.67	Q		1057.8	RN/L	W)	3.5780
SECTION (1)BODY FLAP UPPER	œ	DEP	DEPENDENT VARIABLE	AR I AB	LE CP			•		•				
X/LB 1.0180 1.0460														
PH1 .00034613445 40.0003882993										*.*.				
ALPHA (2) = .052 BE	BETA (1) =	-3.863	MACH	Ħ	. 83853	O		598.47	۵	•	1059.0	RN/L	M)	3.5741
SECTION (1)BODY FLAP UPPER	α.	DEPE	DEPENDENT VARIABLE	NR I ABI	LE CP									
X/LB 1.0180 1.0460														
PH1 .00035643478 40.00038193881	·													

DATE 12 FEB 78 TABULATED PR	PRESSURE DATA - DAI48 (AMES 11-073-1)				ā.	PAGE 5582
	AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP UP	Y FLAP UP		(XE8F41)		
ALPHA (2) = .055 BETA (2) =	. 182 MACH = .89853 0	≈ 598,47	4	1059.0	RN/L	= 3.5741
SECTION (1) BODY FLAP UPPER	DEPENDENT VARIABLE CP					
X/LB 1.0180 1.0460						
FH1 .00034383474 40.00037273867						
ALPHA (2) = .070 BETA (3) =	4.253 MACH = .89853 0	- 598.47	.	1059.0	FB/L	- 3.57 ⁴ 1
SECTION (1) GODY FLAP UPPER	DEPENDENT VARIABLE CP					
X/LB 1.0180 1.0460						
PHI .000347+3469 .00.00037703891						,
ALPHA (3) = 3.947 BETA (1) =	-3.868 MACH = .89830 Q	= 598.51	a	1059.5	EN L	3.5778
SECTION (1)BODY FLAP UPPER	DEPENDENT VARIABLE CP					٠
X/LB 1.0180 1.0460						
PH1 .00035853556 40.00037223890						
ALPHA (3) = 4.618 BETA (2) =	.184 MACH = .89830 Q	= 598.51	a.	1059.5	1	3.5778
SECTION (1)BODY FLAP UPPER	DEPENDENT VARIABLE CP					
X/LB 1.0180 1.0460						•
PH1 .00034123485 40.00035993793						
ALPHA (3) = 4.018 BETA (3) =	4.245 MACH = .89830 0	= 598.51	.	1059.5	PS/ 1	= 3.5778
SECTION (1)BODY FLAP UPPER	DEPENDENT VARIABLE CP					
X/LB 1.0:80 1.6460	**.					
PH1 .00034663494 40.00037483736						

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PAGE 5583		RN/L = 3.5789				RN/L = 3.5789				RN/L = 3.5789				RN/L = 3.5769				RN/L = 3.5769			
	(XE8F4!)	= 1058.3				- 1058.3				= 1058.3				- 1059.0				= 1059.0			
		۵				<u>α</u>				Φ.				۵				α.			i
•	SODY FLAP UP	= 599.06				= 599.06				= 599.06				= 598.63				= 598.63			
1-073-1	R ORB E	a				a				0				o				ø			
PRESSURE DATA - CAI48 (AMES 11-073-1)	AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP UP	-3.861 MACH = .89927	DEPENDENT VARIABLE CP			.181 MACH = .89927	DEPENDENT VARIABLE CP			4.247 MACH = .89927	DEPENDENT VARIABLE CP			-3.850 MACH = .89863	DEPENDENT VARIABLE CP			.191 MACH = .89863	DEPENDENT VARIABLE CP		
TABULATED P		(1)				(2)				(3) =				- 11				٠ (ڪ)			
DATE :3 FEB 76 TAB		ALPHA : 43 = 7.919 BETA	SECTION (1) BODY FLAP UPPER	X7L9 1.0180 1.0%60	PH; . 660 3+29 3473 . 0 00 3755 3852	ALPHA (4) = 7.925 BETA	SECTION (1)BODY FLAP UPPER	X/LB 1.0180 1.0460	PHI .00033273491 40.00036073846	ALPHA (4) = 7.877 BETA	SECTION (1) BODY FLAP UPPER	X/LB 1.0180 1.0460	PHI .00033783482 40.00036813781	: ALPHA (5) = 11.893 BETA	SECTION (1)BCOY FLAP UPPER	X/LB 1.0180 1.0460	PHI .000 - 3459 - 3560 40.000 - 3670 - 3957	ALPHA (5) = 11.848 BETA (SECTION (1) BODY FLAP UPPER	X/LB 1.0180 1.0460	PHI .00031543289 40.00034583749

ORIGINAL PAGE IS OF POOR QUALITY

PAGE 5584 1059.0 RN/L (XEBF41) AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP UP TABILATED PRESSURE DATA - DAINB (AMES 11-073-1) 4.259 MACH = .89863 BETA (3) = A.PHA (5) = 11.881 DATE 13 FEB 76

DEPENDENT VARIABLE CP

1.0180 1.0460

SECTION (1) BODY FLAP UPPER

-.3470 -.3804 -.3212 PH1 .000 +0.000

PAGE 5585	05 AUG 75)		85.000 10.000 .600	9698.4				±.8696				* 4.8696				± .9696			
PA(•	DATA	SPOBRK = L-ELVN = MACH =	RN/L				REAL				RN/L				- X			
	(XEBF42)	PARAMETRIC	10.000 16.300 10.000	- 2386.3				- 2386.3				= 2386.3				• 2386.3			
an person to			RUDDER ** BDFLAP ** R-ELVN **	۵				Q.				2.				۵.			
······································	T FLAP UP			= 593.85				* 593.85				= 593.85				s 593.85			
11-073-1	-140A/B/C/R ORB BODY			o				G				O				0			
PRESSURE DATA - 0A148 (AMES 11-073-1	AMES 11-073(0A148) -140A/B/C		1076.6806 IN. XO .0500 IN. YO 375.0000 IN. ZO	-7.852 MACH59622	DEPENDENT VARIABLE CP		•	-3.842 MACH = .59622	DEPENDENT VARIABLE CP			.191 MACH = .59622	DEPENDENT VARIABLE CP			4.273 MACH * .59622	DEPENDENT VARIABLE CP		
CATE 13 FEB 76 TABULATED PRE		REFERENCE DATA	SREF = 2690,0000 SQ.FT. XMRP = 1076 LREF = 474.8000 IN. YMRP = 926.0590 IN. ZMRP = 375 SCALE = .0300	ALPHA (1) # -4.049 BETA (1) # .	SECTION (1) BODY FLAP UPPER	X/LB 1.0180 1.0460	PH1 .00032303375 .000.00028893020	ALPHA (1) = -3.97; BETA (2) =	SECTION (1)BODY FLAP UPPER	X/LB 1.0180 1.0450	PHI .00031113392 .00.00027853099	ALPHA (1) = -3.888 BETA (3) =	SECTION (1)800Y FLAP UPPER	X/LB 1.0180 1.0450	FH1 .00C27902721 +0.00034+039+9	ALPHA (1) = -3.983 BETA (4) =	SECTION (1)BODY FLAP UPPER	X/LB 1.0180 1.0460	PH1 .00030833295 +0.00035333938

TABLE ATER POSESSINSE NATA - NAINS AMES 11-073-1 }	5 11-073-1	~				PAGE 5586
	/C/R ORB 84	ODY FLAP UP		(XEBF42)	•	
ALPHA (1) = -3.999 BETA (5) = 8.343 MACH = .59622	0	= 593.85	<u>o</u> .	2386.3	RN/L	9698.⊬ ≈
SECTION (1) BODY FLAP UPPER CP						
X/LB 1.0180 1.0460						
PHI .00030933252 40.00035933923						
ALPHA (2) *003 BETA (1) * -7.885 MACH * .59612	a	- 593.61	۵	2386.1	RAVI	#.B73
SECTION (1) BOOY FLAP UPPER CP						
X/LB 1.0180 1.0460						
PH1 .00032453381 40.00029443063						
ALPHA (2) = .104 BETA (2) = -3.860 MACH = .59612	o	- 593.61	۵	= 2386.1	R	■ 4.8734
SECTION (1) BODY FLAP UPPER DEPENDENT VARIABLE CP						
X/LB 1.0180 1.0450						
PHI 000 - 3231 - 3499 46.000 - 2932 - 3037						
ALPHA (2) = .114 BETA (3) = .190 MACH * .59612	0	= 593.61	۵	- 2386.1	PA/L	# 1.8734
SECTION (1) BODY FLAP UPPER DEPENDENT VARIABLE CP						
X/L9 1.0180 1.0460						
PH1 .00029042783 +0.00033043892						
ALPHA (2) = .111' BETA (4) = 4.251 MACH = .59612	•	= 593.61	۵	2386.1	PN/L	单(部)
SECTION : 1) BODY FLAP UPPER DEPENDENT VARIABLE CP						
X/LB 1.0180 1.0460						:
PHI .00031503391 .0.00035763850						

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PAGE 5587	(XEBF42)	P = 2385.1 RN/L = 4.8734				P = 2386.0 RN/L + 4.18833				P = 2386.0 RN/L = 4.18833				P = 2386.0 RN/L = 4.8833		•		P = 2386.0 RN/L = 4.8833			
TABULATED PRESSURE DATA - DAIMB (AMES 11-073-1)	AMES 11-07310A148) -140A/B/C/R ORB BODY FLAP UP	8.310 MACH = .59612 0 = 593.61	DE PENDENT VARIABLE CP			-7.899 MACH = .59674 Q = 594.79	DEPENDENT VARIABLE CP			-3.860 HACH = .59674 0 = 594.79	DEPENDENT VARIABLE CP			.193 MACH = .59674 0 = 594.79	DEPENDENT VARIABLE CP			4.242 MACH = .59574 Q = 594.79	DEPENDENT VARIABLE CP		
CATE 13 FEB 76 TABULATED P		ALPHA (2) = .040 BETA (5) =	SECTION (1) BODY FLAP UPPER	. X/LB 1.0180 1.0450	PH1 .GOO32003320 40.00035633906	ALPHA (3) = 4.041 BETA (1) =	SECTION (1)BODY FLAP UPPER	X/LB 1.0180 1.0+60	PH1 .00032973382 .000299231	ALPHA (3) = 3.969 BETA (2) =	SECTION (1) BODY FLAP UPPER	X/LB 1.0183 1.0460	PH1 .00033013414 90.00029253171	ALPHA (3) = 4.049 BETA (3) =	SECTION (1) BODY FLAP UPPER	X/LB 1.0180 1.0450	PH1 .COO28032815 .40.00031903724	ALPHA (3) = 3.947 BETA (4) =	SECTION (1) BODY FLAP UPPER	X/LB 1.0180 1.0%53	PHI .00031563416 40.00035173893

PAGE 5588	(XEBE42)	= 2386.0 RN/L = 4.8833			= 2386.1 RN/L + 4.8802			= 2386.1 FN/L = 4.8902			- 2386.1 FN/L - 4,18802			* 2386.1 FN/L * %.8802		
٠		۵			Δ.			۵			Q.			ů.		ı
•	ODY FLAP UP	≠ 594.79			= 594.20			≥ 594.20			- 594.20			• 594.20		
11-073-1	/R ORB B	c			ø			a			o			a		
PRESSURE DATA - DAIMB (AMES 11-073-1)	AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP UP	8.292 MACH = .59674	DEPENDENT VARIABLE CP		МАСН596ч№	DEPENDENT VARIABLE CP		МАСН ■ .59644	DEPENDENT YARIABLE CP		нисн 59644	DEPENDENT VARIABLE CP		MACH = .59644	DEPENDENT VARIABLE CP	
PESSU	AMES 11	8.292	DEPEND		-7.888	DEPEND		-3.855	DEPENDE		. 180 HJ	DEPENDEN		4.244 MA	DEPENDE	
TABULATED PRESSU	AMES 11	(5) = 8.292	DEPEN			DEPEND			DEPENDE			DEPENDEN			DEPENDE	

機関学のは、機関機能を関係を通過して対象性を使用されていません。 こうしゅうしょう こうさんしょう しょうしょう しょうしょう しゅうしょく 大きなして

CATE 13 FEB 76 TABULATED F	PRESSURE DATA - 0A148 (AMES 11-073-1)	11-073-1					PADE 5563
	AMES 11-073(3A148) -140A/B/C/R 0RB BODY FLAP UP	7R 098 B	ODY FLAP UP		(XEBE+5)		
ALPHA (4) = 8.035 BETA (5) =	8.296 MACH ₹ .59644	o	594.20	۵.	= 2386.1	¥	야 () () #
SECTION (1) BODY FLAP UPPER	DEPENDENT VARIABLE CP						:
X7UB 1.0180 1.0450							
7H1 .03033943555 40.00036753964							• 1
ALPHA (5) = 11.910 BETA (1) #	-7.853 MACH = .59658	a	± 594.43	۵	■ 2385.8	Z Z	*.8823 *.
SECTION I LUBOUY FLAP UPPER	DEPENDENT VARIABLE CP						
X/LB 1.0180 1.0460							
PH1 000 - PB42 - 2827 000 - 3507							
ALPHA (51 = 11.930 BETA (2) =	-3.836 MACH = .59558	o	= 594.43	۵	■ 2385.8	<u>-</u> '	£ 4.8823
SECTION (1)BODY FLAP UPPER	DEPENDENT VARIABLE CP						
X/LB 1.0180 1.0450							
PH1 .60028012915 .60031153690							
ALPHA (5) = 11.966 BETA (3) =	.177 MACH = .55358	ø	= 594.43	U.	≈ 2385.8	PN/L	\$288.4 *
SECTION (1) BODY FLAP UPPER	DEPENDENT VARIABLE CP	•					٠.
X/LB 1.0183 1.0469							
PH1 .00026552854 40.00031332518							- ; ,
ALPHA (5) = 11.976 BETA (4) =	ч.252 мАСН ≈ .59658	o	* 594.43	_	= 2385.8	ž	€ 88 · #
SECTION I 1380DY FLAP UPPER	DEPENDENT VARIABLE CP						• . i .
X/LB 1.0180 1.0960							.
PH1 .00031273516 40.00034733743							

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		(XEBPN2)	2385.8			
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		AP UP	594.43			
	_	30¥ FL	H L			
	TABULATED PRESSURE DATA - DAINB (ANES 11-073-1)	AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP UP	o			
	ES 11-	B/C/R	83		÷	
	£	-140A/	. 59658	SPENDENT VARIABLE CP		
	0A148	148)		VARIA		
	DATA -	A01570	8.318 MACH	VDENT		
	SURE I)-11 S	.318	ii ii		
	PRES	AYE	6D H			
	ULATEI		(2)			
	TAE		BETA (5)	PER		
				AP UP	0340.1	.36+0 36+0
			12.6	00가 된	1.0180 1.0460	3262343£ 34583640
	EB 75		e (5	B(1 1	0.1	
	CATE 13 FEB 76		ALPHA (5) = 12.034	SECTION 1 11900Y FLAP UPPER	m	PH1 .020 40.630
	CATI		4	(n	e×	ቢ ታ

F10E 5591	(XEB143) (XEB148)	PABAYETRIC DATA	000 8 75 000 0 8 75 000 0 8 75 000 0 8 75 000 0 1 8 75 00	# 1050.9 4 4/WF # 3.5597				# 1050.9 RN/L # 3.5697				= 1360.9 RN/L = 3.569T				* 1052.1 FN/L * 3.5486			
11-073-1)	VR ORB BODY FLAP UP		RUDDER BOFLAP R-ELVN	g = 598.79 P				Q = 598.79 P				Q = 598.79 P				0 = 597.91 P			
TABULATED PRESSURE DATA - DAIHB (AMES 11-073-1	AMES 11-073(04148) -1404/8/C/R ORB	טאדא	T. XMRP = 1078.6800 IN. XO YMRP =	BETA (1) = -3.850 MACH = .89793	JPPER DEPENDENT VARIABLE CP	09	6E	BETA (2) = .187 MACH = .89793	JPPER DEPENDENT VARIABLE CP	50	99 20	BETA (3) = 4.272 MACH = .89793	JEPER DEPENDENT VARIALLE CP	25	21 78	BETA (1) = -3.865 MACH = .89577	JPPER DEPENDENT VARIABLE CP	05	#E
CATE 13 FEB 75		BENEVER	SPER = 8590,0000 30,FT LAEF = 474,8000 1N. B9EF = 938,0880 1N. SCALE = 038,0800 1N.	ALPHA (1) = -4.070	SECTION (1)BODY FLAP UPPER	X/LB 1.0183 1.0450	PH1 .000. .36133499 .40.000.	690"t- = [1] WHdTK	SECTION : 11800Y FLAP UPPER	X/LB 1.0163 1.0950	1Hd 3845 6835 000.04 5845 1375 000.04	ALPHA (1) = -4.078	SECTION (13803Y FLAP UPPER	X/LB 1.0195 1.0460	PH1 .00035663521 %0.00036123578	ALPHA (2) =023	SECTION : 11800Y FLAP UPPER	X/LB 1.0180 1.0460	PHI .00035733514 .000.04

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DATE 13 FEB 76 TABULATED	TABULATED PRESSURE DATA - OAI48 (AMES 11-073-1)	-073-1				PAGE 5592	
	AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP UP	ORB BODY FLAP UP		(XEBF43)	٠٠ چيو ٠٠		
ALPHA (2) *015 BETA (2) =	.186, MACH = .89677	. 597.91	a	1062. 1	RN/L	3.6486	ω
SECTION (1) BODY FLAP UPPER	DEPENDENT VARIABLE CP						
X/LB 1.0190 1.0460							
PH1 .00033833359 +0.00035253335							
ALPHA (2) =021 BETA (3) =	4.247 MACH = .89677	97.91	۵	• 1052.1	PR/L	3.6+86	•
SECTION (1)BODY FLAP UPPER	DEPENDENT VARIABLE CP						
X/LB 1.0180 1.0460							
PH1 .00034373478 .00.00435653418							
ALPHA (3) = 3.931 BETA (1) =	-3.870 MACH = .89677	0 = 597.91	Q.	* 1062.1	RN/L	3.636	æ
SECTION (1)BODY FLAP UPPER	DEPENDENT VARIABLE CP						
X/LB 1.0180 1.0460							
PH1 .00035013513 40.00032783330							
ALPHA (3) = 3,931 BETA (2) =	.185 MACH = .89677	97.91	Q	1062.1	RN/L	3.636 +	£
SECTION (1)BODY FLAP UPPER	DEPENDENT VARIABLE CP						
X/LB 1.0180 1.0450					•		
PHI .00033953+12 +0.00033013310							
ALPHA (3) = 3.933 BETA (3) =	4.242 MACH = .89677	0 = 597.91	۵.	= 1062.1	RNAL	- 3.636£	Æ
SECTION (1)BODY FLAP UPPER	DEPENDENT VARIABLE CP						
X/LB 1.0180 1.0460							
PH1 .000 - 34503337 40.00034933486		,					

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DATE 13 FEB 76 TABULATED PRE	TABULATED PRESSURE DATA - OAI48 (AMES 11-073-1	1-073-1	•				p.	PAGE 5593	5593
A	AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP UP	R ORB BO	DY FLAP UP			(XEBF43)			
ALPHA (4) * 7.998 BETA (1) *	-3.866 MACH = .89613	o	597.48	٥		1062.9	RN/L	11	3.6207
SECTION (1) BODY FLAP UPPER	DEPENDENT VARIABLE CP								
X/LB 1.0180 1.0460									
FHI .00035653446 40.00033613375									
ALPHA (4) = 8.006 BETA (2) =	.180 MACH = .89613	σ	= 597.48	۵	•	1062.9	1/8	•	3.6207
SECTION (1) BCDY FLAP UPPER	DEPENDENT VARIABLE CP								
X/LB 1.0180 1.0460									
PH1 .00035223479 +0.00033513311									
ALPHA (4) = 8.004 BETA (3) =	4.244 MACH = .89613	ø	= 597.48	۵		1062.9	1/NE		3.6207
SECTION (1)BODY FLAP UPPER	DEPENDENT VARIABLE CP								
X/LB 1.018G i.0460									
PHI .00034353558 .40.90034513520									
ALPHA (5) = 11.977 BETA (1) = -	-3.853 MACH = .89753	o	= 538.50	٥		1061.4	FBN/L		3.6129
SECTION (1)BODY FLAP UPPER	DEPENDENT VARIABLE CP								
X/LB 1.0180 1.0460									
PH1 .00036973754 40.0003833408 6									
ALPHA (5) = 11.988 BETA (2) =	.182 MACH = .89753	o	598.50	۵	ī	١٥٥١ . 4	1		3.6129
SECTION (1) BODY FLAP UPPER	DEPENDENT VAR! ABLE CP								
X/LB 1.0180 1.0450									
PH1 .00034363453 +0.00036023853				ì					

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DATE 13 FEB 76

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PA/L

(XEBF43)

AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP UP

MACH BETA (3) = ALPHA (5) = 11.978

DEPENDENT VARIABLE CP

SECTION (1:800Y FLAP UPPER 1.0180 1.0460 X/LB

PH1 . 060 +0.000

-. 3654 -. 3995 -.3504

PAGE 5595	(XEBF44) (05 AUG 75)	PARAMETRIC DATA		= 2387.2 RN/L = 4.8840			·	= 2387.2 RN/L = 4.8840				* 2387.2 FN/L * 4.8840				# 2387.2 HN/L = 4.8640			
	BODY FLAP UP		RUDDER • BOFLAP • R-ELVN •	• 593.75 P				= 593.75 P				= 593.75 P				= 593.75 P			
TABULATED PRESSURE DATA - DAINB (AMES 11-073-1	AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP UP		1076.6£30 1N. XO .0000 1N. YO 375.0000 1N. ZO	-7.850 MACH = .59610 0	DEPENDENT VARIABLE CP			-3.842 MACH = .59610 Q	DEPENDENT VARIABLE CP			.188 MACH = .59610 0	DEPENDENT VARIABLE CP			4.269 MACH = .59610 0	DEPENDENT VARIABLE CP		
DATE 13 FEB 76 TABULATED PI		ATAC RONACE THE	= 2690.0000 50.FT. XMRP = 474.8000 IN. YMRP = 936.0680 IN. ZMRP =	SCALE = .0300 ALPHA (1) = -4.010 BETA (1) =	SECTION (1)BODY FLAP UPPER	X/L9 1.0180 1.0%60	PHI .00030072920 40.00030103265	ALPHA (1) * -3.994 BETA (2) *	SECTION (1)BODY FLAP UPPER	X/LB 1.0180 1.0460	PH1 .00029192847 40.00030143230	ALPHA (1) = -3.985 BETA (3) =	SECTION (1)BODY FLAP UPPER	X/LB 1.0180 1.0450	PH1 .00029032792 .0.00030453277	ALPHA (1) = -3.992 BETA (4) =	SECTION (1)BODY FLAP UPPER	X/LB 1.018C 1.0460	PH1 .00028212738 40.00031243386

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5596	
PAGE	

DATE 13 FEB 76 TABULATED PRE	TABULATED PRESSURE DATA - CAI48 (AMES 11-073-1)	1-073-1					PAGE 5596
	AMES 11-07310A148) -140A/B/C/R ORB BODY FLAP UP	R ORB BODY FI	LAP UP		(XEBE+4)		
ALPHA (1) = -4.007 BETA (5) =	8.349 МАСН = .59610	•	593.75	۵.	= 2387.2	RN/L	#. 88+0
SECTION : 1)BOOY FLAP UPPER	DEPENDENT VARIABLE CP						
X/LB 1.0180 1.0460							
PH1 .00028192656 +0.00032523504					,	į	
ALPHA (2) = .039 BETA (1) # -	-7.886 MACH = .59632	•	593.98	Q	- 2386.1		4.8/83
SECTION (1)BGDY FLAP UPPER -	DEPENDENT VARIABLE CP						
X/LB 1.0;80 1.0460							
PHI .00031453079 40.00031123079							1
* (5) BETA (2) *	-3.866 MACH = .59632	•	593.96	٥	2386.1	7	■ 4.8783
SECTION (1)BODY FLAP UPPER	DEPENDENT VARIABLE CP						
X/L9 1.0180 1.0450							
PHI .G0030023054 +G.00030123175							
ALPHA (2) = .05 BETA (3) =	. 192 MACH = .59632		593.96	۵	- 2385.1	RN/L	• 4.8783
SECTION (1)BODY FLAP UPPER	DEPENDENT VARIABLE CP						
X/LB 1.0180 1.0460							
PHI .00028862955 .000029363200							
ALPHA (2) = . 049 BETA (4) =	4.248 MACH = .59632	•	593.95	۵.	- 2386.1	Š	- 4.8783
SECTION (1)BODY FLAP UPPER	DEPENDENT VARIABLE CP						
X/LB 1.0180 1.0460							
PHI .00028472883 43.00031623347			·	į			

DATE 13 FEB 76 TABULATED PRESSU	TABULATED PRESSURE DATA - OAI48 (AMES 11-073-1)	1-073-1				a.	PAGE 5597
	AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP UP	ORB BODY	FLAP UP		(XEBF14)		
ALPHA (2) = .044 BETA (5) = 8.3	8.307 MACH = .59632	•	= 593.96	۵.	= 2386.1	PN/L	. 4.8783
SECTION (1)BODY FLAP UPPER	DEPENDENT VARIABLE CP						
X/LB 1.0180 1.0460							
PH1 .00028922901 40.00033223516	·						ļ
ALPHA (3) = 3.960 BETA (1) = -7.9	-7.902 MACH * .59694	•	= 595.02	Q.	= 2385.4	1 27	* 4.8785
SECTION (1)BODY FLAP UPPER	DEPENDENT VARIABLE CP						
X/LB 1.0180 1.0450					•		
PH1 .00031923263 40.00029983019				** ₀			
ALPHA (2) = 3.964 BETA (2) = -3.8	-3.864 MACH = .59694	•	595.02	٩	= 2385.4	RN/L	+.8785
SECTION (1)BODY FLAP UPPER,	DEPENDENT VARIABLE CP						
X/LB 1.0180 1.0460							
PHI .30030673142 40.30030103209							
ALPHA (3) = 3.969 BETA (3) = .1	.189 MACH = .59694	•	= 595.02	<u>a</u>	= 2385.4	RN/L	- 4.8785
SECTION (1)BODY FLAP UPPER	DEPENDENT VARIABLE CP					٠	
X/LB 1.0180 1.0460							
PHI .00028242968 .00028743217					· · · · · · · · · · · · · · · · · · ·		
ALPHA (3) = 3.972 BETA (4) = 4.6	4.243 MACH = .59694	0	595.02	a	* 2385.4	1/2	* 4.8785
SECTION (1) BODY FLAP UPPER	DEPENDENT VARIABLE CP						
X/LB 1.0180 1.0450							
PHI . 000 - 2881 - 2905 . 010 - 3150 - 3380				· .			

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PAGE 2098	(XEBF44)	= 2385.4 RN/L = 4.8785				* 2396.3 FRV. * 4.0000				= 2386.3 RN/L = 4.805c				= 2385.3 mm/L = 1.000.			9	# 2580.5 PRVL - 7:00-2			
		۵				Q.				a.				۵.				<u>.</u>			
	BODY FLAP UP	- 595.02				s 593.73				593.73				593.73				= 593.73			
11-073-	./R ORB 1	0				a				O				O				ø			
TABULATED PRESSURE DATA - OA148 (AMES 11-073-1)	AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP UP	8.290 MACH = .59694	DEPENDENT VARIABLE CP			-7.890 MACH = .59616	DEPENDENT VARIABLE CP			-3.859 MACH * .59616	DEPENDENT VARIABLE CP			.178 MACH * .59616	DEPENDENT VARIABLE CP			4.241 MACH = .59616	DEPENDENT VARIABLE CP		e e
ULATED F		(2)				1 11 -				(2)				(3)				# (+)			
DATE 13 FEB 76 TAB		ALPHA (3) = 3.982 BETA	SECTION (1) BODY FLAP UPPER	X/LB 1.0180 1.0450	PH1 .00030923222 +0.00033703908	ALPHA (4) = 8.025 BETA	SECTION (1) BODY FLAP UPPER	X/LB 1.0180 1.0460	PH1 .00032413381 40.00030923030	ALPHA () = 8.036 BETA	SECTION I 11800Y FLAP UPPER	X/LB 1.0180 1.0460	PH1 .00030063120 40.00029353082	ALPHA (43 = 8.040 BETA	SECTION (1)BODY FLAP UPPER	X/LB 1.0180 1.0460	PH1 .00028322922 .0.00028553199	ALPHA (4) = 8.039 BETA	SECTION (1) BODY FLAP UPPER	X/LB 1.0180 1.0450	PH1 .00028672964 40.00031723335

PAGE 5599		RN/L . 4.8652				RN/L = 4.8654				RN/L = 4.8654				RN/L = 4.8654				FON 1.007			
	(XE9F44)	= 2385.3				= 2386.7				- 2386.7				- 2386.7				P 2385.7			
73-1)	THE BODY FLAP UP	≥ 593.73 P				= 593.74 P				■ 593.74 P				= 593.74 ₽				593.7			
PRESSURE DATA - 0A148 (AMES 11-073-1)	AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP UP	8.285 MACH = .59516 0	DEPENDENT VARIABLE CP			-7.852 MACH = .59616 Q	DEPENDENT VARIABLE CP			-3.840 МАСН = .59616 0	DEPENDENT VARIABLE CP			.176 MACH * .59616 0	DEPENDENT VARIABLE CP			4.247 MACH = .59616 Q	DEPENDENT VARIABLE CP		
TABULATED PRES		ALPHA (4) = 8 (38 BETA (5) = 8	SECTION (1) BODY FLAP UPPER	X/LB 1.0180 1.0460	PHI .00031523105 +0.00033993653	ALPHA (5) = 12.021 BETA (1) = -7	SECTION (1) BOOY FLAP UPPER	X/LB 1.0180 1.0460	PH1 .00028342839 40.00029173297	ALPHA (5) = 11.932 BETA (2) = -:	SECTION (1) BOOY FLAP UPPER	X/LB 1.0180 1.0450	PH1 .C0029853039 .40.00020093150	ALPHA (5) = 11.946 BETA (3) =	SECTION (1)BODY FLAP UPPER	X/LB 1.0180 1.0460	FH1 .00027702930 40.00030623348	ALPHA (5) = 11,941 BETA (4) =	SECTION (1) BODY FLAP UPPER	X/LB 1.0180 1.0450	PH1 .00030853128 40.00033573584

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TABULATED PRESSURE DATA - DAI48 (AMES 11-073-1) DATE 13 FEB 76

AMES 11-073(0A148) -140A/B/C/R ORB BGDY FLAP UP

(XEBF44) **- 2386.7**

* 4.8654

PAGE 5600

= 593.74 8.207 MACH = .59516 BETA (5) = ALPHA (5) . 11.928

PEPENDENT VARIABLE CP

SECTION (1)BODY FLAP UPPER 1.0180 1.0450 X/LB

-.2895 -.3029 -.3292 -.3+92 PH! .000 .40.000

5601	ъ С		55.000 4.000 .900	3.6441				3.0441				3.6441				3.5228			
PAGE	05 AUG 75		ın '					*											
Δ.	~	DATA	SPOBRK # L-ELVN # MACH #	RN/L				PN/L				PN/L				RN/L			
	(XEBF45)	PARAMETR1C	.000 22.500 4.000	1061.9				1061.9				1061.9				1061.9			
		<u>α</u>		•				•											
			RUDDER BOFLA9 R-ELVN	a.				Q.				۵				۵			
	FLAP UP			597.89				597.89				597.89				597.56			
<u>-</u>	ŽQQ.							*											
1-073-1	R ORB B			o				ø				ø				ø			
PRESSURE DATA - DAIHB (AMES 11-073-1	11-073(0A148) -140A/B/C/R ORB BODY FLAP UP		. xo . 70 . 20	MACH = .89683	DEPENDENT VARIABLE CP			MACH = .39683	DEPENDENT VARIABLE CP			MACH ★ .89683	DEPENDENT VARIABLE CP			ндсн ≈ .89560	DEPENDENT VARIABLE CP		
TED PRESSURE DA	AMES 11-07		* 1075.6800 IN. * .0000 IN. * 375.0000 IN.	3.82	DEPEN			. 188	DEPEN			- 4.270	DEPEN			≠ -3.868	DEPEN		
TABULATED				2				ć				3				1 1)			
		REFERENCE DATA	2590.0000 50.FT. XMRP 474.8000 IN. YMRP 935.0560 IN. ZMRP	1) = -3.961 BETA	(1)BODY FLAP UPPER	1.0180 1.0460	36163466 36043575) = -3.932 BETA	(11800Y FLAP UPPER	1.0180 1.0460	36693537 36413510) = -3.942 BETA	(1)BODY FLAP UPPER	1.0180 1.6450	35673458 36713571	2) = .010 BETA	SECTION (1)BODY FLAP UPPER	1.0180 1.0460	35423577 33473452
DATE 13 FEB 76			SREF = BREF = SCALE =	ALPHA (1	SECTION	X/LB	PH1 .000 40.000	ALPHA (1	SECTION	X/LB	PH1 .000 .000	ALPHA (1	SECTION	X/LB	PHI .000 .40.000	ALPHA 1 6	SECT : ON	X/LB	PH1 .000 .40.000
តិ			### ## B	र्न	UI	×		Ή	UI	×		Ą	UI	×		A.	UI	À,	

DATE 13 FEB 76 TABULATED		PRESSURE DATA - DAINB (AMES 11-073-1	- 0A148 (A))-11 53	173-1						₫.	PAGE 5602	205
	*	AMES 11-07310A148) -140A/B/C/R ORB BODY FLAP UP	1148) -140A	B/C/R (FRB BOD	Y FLA	9			(3EBF45)			
ALPHA (2) = .025 BETA (2)	,	. 185 MACH	. 89650		o	* 59	597.56	۵.		9051.9	1/2	m #	3.6258
SECTION (1) BODY FLAP UPPER		DEPENDENT	DEPENDENT VARIABLE CP	•									
X/LB 1.0180 1.0460													
PH1 .00035253468 .00.00033733439							·						
ALPHA (2) = .019 BETA (3)		4.247 MACH	1 = .89660		0	* 29	597.56	۵		1061.9	1/18	M N	3.6228
SECTION (1) BODY FLAP UPPER		CEPENDENT	DEPENDENT VARIABLE CP										
X/LB 1.0180 1.0450													
PH? .00035633504 .000035733651													
ALPHA (3) = 3.946 BETA (1)	#	-3.873 MACH	H * .89837		G	• 59	599.08	۵	n	1060.5	PN/L	M •	3.5099
SECTION (1)BODY FLAP UPPER		DEPENDENT	DEPENDENT VARIABLE CP	•									
X/LB 1.6180 1.0460													
PH1 .00033973532 40.00034023328													
ALPHA (3) = 4.602 BETA (2)		. 184 MACH	4 = .89837		0	25	599.08	۵.		1060.5	1/2	M H	3,6099
SECTION (1.BODY FLAP UPPER		DEPENDENT	DEPENDENT VARIABLE CP										
X/LB 1.0180 1.0460													
PH) .00033593314 40.01032953392									ŕ				
ALPHA (3) = 3.937 BETA (3)		4.239 MACH	H 89837		o	- 29	599.08	<u>a</u>	•	1050.5	Z.	m •	3.6099
SECTION (1)BODY FLAP UPPER		DEPENDENT	DEPENDENT VARIABLE CP	•			-						
X/LB 1.0180 1.0460		. *											
PH! . GOD343E3406 . GOD34293514													

PAGE 5503	(XE9F45)	* 1061.4 RN/L * 3.5937				* 1061,4 RN/L # 3.5937				* 1051,4 RN/L * 3.5937				* 1052.9 RN/L * 3.5856				= 1062.9 PN/L = 3.5856			
1-073-1	R ORB BOOY FLAP UP	Q * 598.50 P				Q = 598.50 P				0 = 598.50 P				0 = 597.97 P				0 = 597.97 P			
PRESSURE DATA - DAI48 (AMES 11-073-1	AMES. 11-073(0A148) -140A/8/C/R ORB BODY FLAP UP	3.638 MACH = .89753	DEPENDENT VARIABLE CP			177 MACH = .89753	DEPENDENT VARIABLE CP			4.243 MACH = .89753	DEPENDENT VARIABLE CP			-3.856 MACH = .89653	DEPENDENT VARIABLE CP			: .178 MACH = .89553	DEPENDENT VARIABLE CP		
CATE 13 FEB 7		ALPHA ' 4	SECTION (1)BODY FLAP UPPER	X/28 1.0180 1.0450	PHI .000354503542 40.00035053313	ALPHA 2 박) = 7.979 BETA (2) #	SECTION (11800Y FLAP UPPER	3//K	THd .000 .000.04.000.04.	ALPHA (4) = 7,978 BETA (3) =	SECTION (1)BODY FLAP UPPER	X/LB ::0180 1.0460	PHI .00035153593 .40.00034273442	2 ALPHA (5) = 11.950 BETA (1) =	SECTION : 11BOOY FLAP UPPER	X/LB 1.0180 1.0460	PH1 .0033683720 40.0003+293536	ALPHA (5) = 11.961 BETA (2) =	SECTION (1)BODY FLAP UPPER	X/LB 1.0180 1.0460	FH1 .00035153551 40.00033973558

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PAGE 5504		3.5856			
ů.		7.8			
	(XEB-12)	1062.9			
			,		
		α.			
	PLAP UP	597.97			
_	900	H			
1-073-	R 088	ø			
I AMES 1	140A/B/C/	.89653	LE CP		
0A148	. (84	Ħ	ARIAE		
ATA -	7310A)	MACH	DEPENDENT VARIABLE CP		
PRESSURE DATA - DAIMB (AMES 11-073-1)	AMES 11-07310AJ48) -140A/B/C/R ORB BODY FLAP UP	4.259 MACH * .89653	DEPEN		
TABULATED P		(3) =		-	
TAB		Æ7.A	KR KR		
_		50	LAP UPF	1.0180 1.6460	3725
ıΩ		QI 	BCDY F	0810	3734
FEB 71		# 60	- 	p-04	
DATE 13 FEB 76	•	A_PHA (5) = 11 950 8ETA (3) =	SECTION (1) BODY FLAP UPPER	BTICK	PH1 COO. COO. COO.

PAGE 5505 25 AUG 75 PARANETRIC DATA (SESCIE) AMES 11-073(0A148) -140A/B/C/R CRB BODY FLAP UP TABULATED PRESSURE DATA - DAIMB (AMES 11-073-1) 37 E37 E1 3740

1, 1993 S 4.8535 ž Z Ž K Z 2387.4 2387.4 RUDDER = BOFLAP = R-ELW = ۵ 593.39 593... C O **≈** .59592 . 59592 . 59592 DEPENDENT VARIABLE CP DEPENDENT VARIABLE CP DEPENDENT VARIABLE CP .188 MACH -7.851 MACH MACH * 1076.6800 IN. XO * .G000 IN. YO * 375.0000 IN. ZO -3.833 3ETA (1) = ر ري ا 3 BETA BETA SECTION (1)800Y FLAP UPPER SECTION (TIBODY FLAP UPPER SECTION (13803 FLAP UPPER REFERENCE DATA 2543.0000 50.FT. -.2651 -.2753 1.0:80 1.0450 1.0380 1.0450 1.0180 1.0450 ALPHA (11 = -3.951 ALCHA (1) = -3.953 -4.081 -.2722 -.2965 - .2840 - .2956 ALPHA (11 = . 000 40. 000 000.04 <u>g</u> e X m¹/X

1.0180 1.0460 X/_B

SECTION # 11800Y FLAP UPPER

593.39

a

. 59552

4.269 MACH

H (1)

BETA

ALPHA : 1) = -3.958

DEPENDENT VARIABLE CP

-.2553 -.3742 1000 1000 1000

9	
E C	
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DATE 13 FEB 76 TABULATED PA	TABULATED PRESSURE DATA - OA148 (AMES 11-073-1)	11-073-1	- G	9		(XEBF45)		PAGE 5506	
•	AMES 11-073(0A149) -140A/B/C/R OMB BOUT FLAF UP	/R OKB 8	ייאין יינטן	3					
ALPHA (1) = -3.973 BETA (5) =	8.335 MACH = .59592	σ	= 593.39		Ω,	■ 2387.4	A.	4.83 4.83 4.83	
SECTION (1) BODY FLAP UPPER	DEPENDENT VARIABLE CP								
X/LB 1.0180 1.0460									
PH1 .00027022633 .40.00030433365					,		Ž	9 6 1	_
ALPHA (2) = .060 BETA (1) =	-7.888 MACH = .59634	0	30.46c =		Q	= 2386.3	FR/L		_
SECTION (1)BODY FLAP UPPER	DEPENDENT VARIABLE CP								
X/LB 1.0180 1.0460									
PHI .00029962861 40.00029463128						i	į	; ;	
ALPHA (2) = .070 BETA (2) =	-3.865 MACH = .59634	ø	594.08		a	2386.3	E S	10. ±	
SECTION (1)BODY FLAP UPPER	DEPENDENT VARIABLE CP								
X/LB 1.0180 1.0460									
PH1 .00028522826 40.00028003084	•						į		,
ALPHA (2) = .070 BETA (3) =	.181 MACH * .59634	a	± 59+.08	8	۵.	• 2386.3	RN L	n 	ħ
SECTION (1)BOOT FLAP UPPER	DEPENDENT VARIABLE CP								
X/L8 1.0180 1.0460									
PM1 .00027002752 .0.00028513159							i		c
= (+ 1 和T38 866) = (4) ; AH9	4.248 MACH = .59634	O	59.08	80.	a.	. 2386	ZX.	, , , , , , , , , , , , , , , , , , ,	n
SECTION (1)BCDY FLAP (APPER	DEPENDENT VARIABLE CP	•							
.a 03+60 08:0 €		•.							
1000 - 32722 - 2646 0.000 - 3008 - 3317		٠.							

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CATE 13 FEB 75 TABULATED PR	PRESSURE DATA - 0A148 (AMES 11-073-1)		TAGE JOBY
	AMES 11-07310A148) -140A/B/C/R ORB BODY FLAP UP	(XE8F46)	
ALPHA (2) = .063 BETA (5) =	3.306 MACH = .59634 Q = 594.08 P	* 2386.3 · RN	RN/L = 4.8479
SECTION (1) BODY FLAP UPPER	DEPENDENT VARIABLE CP		
X/LB 1.0180 1.0460			
PH1 .00028002752 40.00031053476			
ALPHA (3) = 4.012 BETA (1) =	-7.901 MACH = .59704 Q = 595.39 P	- 2386.0 RN	RN/L = 4.8459
SECTION (1) BODY FLAP UPPER	DEPENDENT VARIABLE CP		
X/L9 1.0:80 1.0450	•		

.53704 MACH

DEPENDENT VARIABLE CP

-3.862 MACH

BETA

ALPHA (3) = 4.016

-.30C, -.3107 -.2904 -.3048

SECTION (1)BODY FLAP UPPER

1.2180 1.0460

X/LB

ZX.

Z Z

-.2837 -.2908 -.2842 -.3047 000.04 40.000 595.39 DEPENDENT VARIABLE CP 191 BETA SECTION (11800Y FLAP UPPER ALPHA (3) + 4.027

1.0180 1.0450 X/LB

-.2627 -.2708 -.2811 -.2985 PH1 .000 40.000

2386.0 .59704 DEPENDENT VARIABLE CP MACH 4.239 ALPHA (5) = 4.030 BETA (4) = SECTION (1)BODY FLAP UPPER

E L

1.0180 1.0460 X/LB -.2763 -.2798 -.3013 -.3350 40.000

G.

CATE 12 FEB 75 TABLE ATED PRESSURE DATA - DAIMB (AMES 11-073-1)	ATHB (AMES 1	1-073-1	•				PA	PAGE 5508	m
UAIE 13 FEB /B AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP UP	8) -140A/B/C/	R ORB BC	OY FLAP UP		(XE8F46)	. (94:			!
ALPHA (3) = 4.035 BETA (5) = 8.288 MACH	+0765. =	ø	= 595.39	۵	= 2386.0		RN/L	# #.8469	9 9 9
SECTION (1)800Y FLAP UPPER DEPENDENT VARIABLE CP	RIABLE CP								
X/LB 1.0180 1.0460									
PH1 .00028852939 40.00036973437					ļ			á	C
ALP5A (4) * 7.996 BETA (1) = -7.892 MACH	59670	a	594.93	a .	• 2387.1			b r	2
SECTION (1)BODY FLAP UPPER DEPENDENT VARIABLE CP	RIABLE CP								
X/LB 1.0180 1.0460	٠								
PH1 .00030023108 .00029363115									9
Ξ	.59670	ø	= 594.93	٥	• 2387.1		-1 -1	#. 84.10 10.04.10	: :
SECTION (1) BODY FLAP UPPER DEPENDENT VARIABLE CP	RIABLE CP								
X/LB 1.0180 1.0460									
PH1 .00029963044 .00029482922							3		2 8
ALPHA (4) = 8.012 BETA (3) = .176 MACH	.59670	o	594.93	•	• 2387.1		78% L		
SECTION (1) BODY FLAP UPPER DEPENDENT VARIABLE CP	RIABLE CP							•	
1.0180 1.0+60									
PHI .00027552812 .0.00027152951									
ALPHA (4) = 3.012 BETA (4) = 4.240 MACH	.59670	ø	594.93	۵.	= 2387.1		Z.	¥ #	2 49.4
SECTION (1)BODY FLAP UPPER DEPENDENT VARIABLE CP	ARIABLE CP								
09+0** 0815** 61***									
000 - 2920 - 2820 000 - 2003 - 1305									

DATE 13 FEB 76 TABULATED PRESSURE DATA - DA148 (AMES 11-073-1)				PAGE 5609	603
		(XE8F46)			
ALPHA (4) = 8.009 BETA (5) = 8.293 MACH = .59670 0 = 594.93	a	= 2387.1	RN/L	<i>3</i> *	¥.8+10
SECTION : 1)BODY FLAP UPPER DEPENDENT VARIABLE CP					
X/LB 1.0180 1.0450					
PHI .00028793459 .00029823469					
ALPHA (5) = 11.987 BETA (1) = -7.852 MACH = .59692 Q = 595.28	Q	= 2386.8	RN/L	*	4.8363
SECTION (1)BODY FLAP UPPER DEPENDENT VARIABLE CP					
X/LB 1.0130 1.0460					
5H; .00029632955 90.00028692895					
ALPHA (5) = 12.008 BETA (2) = -3842 MACH = .59692 0 = 595.28	۵.	* 2385.8	RN/L)" N	. 8363
SECTION (1)BODY FLAP UPPER DEPENDENT VARIABLE CP					
X/LB 1.0180 1.0455					
1Hd . 000 - 2756 - 3038 . 000 - 2766 - 2869					
ALPHA (5) = 12.016 BETA (3) = .174 MACH = .59692 0 = 595.28	<u>a</u>	- 2386.8	RN/L	<i>x</i> #	4.8363
SECTION (1)800Y FLAP UPPER DEPENDENT VARIABLE CP					
X/LB 1.0180 1.0+65					
9H; .00027802850 .00028292995					
ALPHA (5) = 11.917 BETA (4) = 4.245 MACH = .59692 0 = 595.28	۵.	= 2386.8	RN/L	# # .	4.8353
SECTION (1)30DY FLAP UPPER DEPENDENT VARIABLE CP					
X/LB 1.0180 1.0469					
IHA					

ORIGINAL PAGE 18 OF POOR QUALITY

	Š	238
		۵
	AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP UP	0 = 595:28
1-073-	R 0RB	o
TABULATED PRESSURE DATA - DAIHB (AMES 11-073-1)	-140A/B/C/I	. 59692
¥I¥	ĝ	M
ATA - (7310A14	MACH
PRESSURE D	AMES 11-0	ALPHA (5) = 11.934 BETA (5) = 8.309 MACH = .59692
63		
Z A		ũ
TAE		BETA
		11.934
37 E		
13 FE		S
DATE 13 FEB 76		AL PHA

DEPENDENT VARIABLE CP

SECTION (1)BODY FLAP UPPER

1.0:80 1.0460

X/LB

-.2584 -.2816 -.2870 -.3445

XEBF46)

PAGE 5610

8.98

PAGE 5511	P (XE8F47) (05 AUG 75)	PARAMETRIC DATA	10.000 SPDBRK =	AP = 16.300 L-ELVN = 4 VN = 4.000 MACH = 1	.0 P = 438.06 RN/L = 2.9180				10 P = 438.06 FN/L = 2.3180				10 P = 438.05 RN/L = 2.9180				F 437.59 HN/L =			
AND THE PRESENCE DATA - DAILS (AMES 11-073-1)	ULAIEU FRESSURE DAIA - CALTO : MILO : COMPANION AMES 11-073(04148) -140A/8/C/R ORB BODY FLAP UP			P = 10/5.5850 1N. XO P = .0000 1N. YO P = 375.0000 1N. ZO	(1) = -3.852 MACH = 1.3993 Q = 600.40	DEPENDENT VARIABLE CP			(2) * .189 MACH = 1.3993 Q = 600.40	DEPENDENT VARIABLE CP			(3) = 4.275 MACH = 1.3993 0 = 600.40	DEPENDENT VARIABLE CP			(1) = -3.871 MACH = 1.3999 Q = 600.31	DEPENDENT VARIABLE CP		
•	CATE 13 FEB 76	ATAC POSSIBLE CONTRACTOR	בר בתביירב סאוא	SPEF = 2590.0000 SQ.FT. XMRP LREF = 474.8600 IN. YMRP SAEF = 936.0580 IN. ZMRP SCALE = .0300	ALPHA (1) = -4.021 BETA	SECTION (1)BODY FLAP UPPER	X/L9 1.0189 1.0463	PH1 . C0031353142 40.00032843407	ALPHA (1) = -4.015 BETA	SECTION (1)BODY FLAP UPPER	X/L8 1.0180 1.0460	PH1 .00030382998 40.00032593409	ALPHA (1) = -4.023 BETA	SECTION (1)BODY FLAP UPPER	X/LB 1.0180 1.0460	PH1 .00031873250 99.00032173340	ALPHA (2) =011 BETA	SECTION (1)BODY FLAP UPPER	X/LB 1.0180 1.0460	PH1 . 300 3254 3323 43. 620 3382 3458

DATE 13 FEB 76 TABULATED		AESSURE I	MTA - 0	PRESSURE DATA - DAIYB (AMES 11-073-1)	11-073-	-					2	PAGE 5612	CJ.
		AMES 11-(73(0A14	AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP UP	C/R ORB	800Y	ינא שף			(XE8F47)			
ALPHA (2) =002 BETA (S) *	.186	MACH	MACH = 1.3999	a'		= 600.31	٥		437.59	FR/L	o. ci ₩	2.9188
SECTION ! 1380DY FLAP UPPER		DEPEN	DENT VA	DEPENDENT VARIABLE CP						•			
X/LB 1.0180 1.0460													
PHI .00032453269 40.00033783512													
ALPHA (2) =007 BETA (3) =	4.251	MACH	1.3999	0	•	600.31	۵		437.59	Z.	# 6.9	2.9188
SECTION (1)BODY FLAP UPPER		DEPE	DENT VA	DEPENDENT VARIABLE CP									
X/LB 1.0180 1.0460													
PH1 .00033083332 40.00033863558													
ALPHA (3) = 3.927 BETA (=======================================	-3.876	MACH	* 1.3955	a	•	€00.00	Q.		440.18	F-1/	P. 9.	2.9202
SECTION (1)BODY FLAP UPPER		DEPEN	DENT VA	DEPENDENT VARIABLE CP									
X/EB 1.0180 1.0460													
FHI .00033743428 40.0003499359S													
ALPHA (3) = 3.927 BETA ()	S) =	191 .	MACH	= 1.3955	O	p	€00.0%	Q.		440.18	7/NS	₽ 6.9	2.9202
SECTION (1)BODY FLAP UPPER		13430	DENT VA	DEPENDENT VARIABLE CP									
%/LB 1.0180 1.0460													
1HG . 000 - 3399 - 3571 . 00.00+													
PHA (3) = 3.930 BETA (3) =	4.244	MACH	* 1.3955	a		€00.04	Q.	,	440.1B	1/NB	# #	2.9202
PECTION (13805Y FLAP UPPER		CEPEN	DENT VA	SEPENDENT VARIABLE CP									
03400 1.0460 E.				•									
55034283480 55035343711								,					

CATE 13 FEB 76 TABULATED PRESSURE DATA - DA148 (AMES 11-073-1)	•			о .	PACE 5613
AMES 11-073(0A148) -140A/B/C/R ORB BOOY FLAP UP	OOY FLAP UP		(XE8F47)	_	
ALPHA (4) = 7.863 BETA (1) = -3.871 MACH = 1.3954 0	≠ 600.24	۵.	± 440.41	RN/L	2 .9228
SECTION (1) BODY FLAP UPPER DEPENDENT VARIABLE CP					
X/LB 1.0190 1.0460					
FH1 .00035463648 .000.04					
ALPHA (4) = 7.994 BETA (2) = .174 MACH = 1.3954 A	₹ 600.24	۵	14.041	FN/L	• 2.9228
SECTION (1)BODY FLAP UPPER DEPENDENT VARIABLE CP					
X/LB 1.0180 1.0460					
PH1 .COO35:53546 40.GOC34893560					
ALPHA (4) = 7.994 BETA (3) = 4.239 MACH = 1.3954 Q	± 600.24	۵.	* 440.41	PN/L	8 .9228 ■
SECTION (1) BODY FLAP UPPER DEPENDENT VARIABLE CP					
X/LB 1.0130 1.0460					
PH1 .50034653472 40.50035603690					
ALPHA (5) = 11.867 BETA (1) = -3.858 MACH = 1.3955 0	≈ 600.34	a.	14.044	RN/L	* 2.9245
SECTION (1) BODY FLAP UPPER DEPENDENT VARIABLE CP					
X/LB 1.0180 1.0460					
PH1 .00035993577 90.00037503646	_				
ALPHA (5: = 11.873 BETA (2) = .176 MACH = 1.3955 0	* 600.34	a	# 440.41	FRV/L	* 2.9245
SECTION 1 11800Y FLAP UPPER DEPENDENT VARIABLE CP					
X/LB 1.0180 1.0450					
PHI .0¢036273710 +0.0¢036113693					

DATE 13 FEB 76 TABULATED PA	TABULATED PRESSURE DATA - OAI48 (AMES 11-073-1)	MES 11-073-					PAGE 5614	
	AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP UP	/B/C/R ORB	BODY FLAP UP		(XEBF47)	F47)		
A; PHA (5) * 11.868 BETA (3) =	4.257 MACH = 1.3955	55	= 600.34	۵.	# 440.41	1 RN/L	= 2.9245	ž. V
SECTION (1) BODY FLAP UPPER	DEPENDENT VARIABLE CP	a						
X/LB 1.0189 1.0460								
PH1 .00035783521 +0.00036513809								
ALPHA (6) = 15.839 BETA (1) =	-3.834 HACH = 1.39+3	+3 Q	= 690.32	۵	* 441.12	PAN/L	* 2.929	8
SECTION (1) BODY FLAP UPPER	DEPENDENT VARIABLE CP	•						
X/LB 1.0180 1.0460								
PH1 .00036803654 40.00038133976								
ALPHA (6) = 15.851 BETA (2) =	.174 MACH = 1.3943	43 Q	= 600.32	۵.	× 441.12	PN/1	₽ 2.9229	6 6 7 7
SECTION (1)BODY FLAP UPPER	DEPENDENT VARIABLE CP	<u>a</u>						
X/LB 1.0180 1.0460								
PHI .00036523513 .000.044104								
ALPHA (5) = 15.843 BETA (3) =	4.283 MACH = 1.3943	43 O	= 600.32	a	- 441.12	2 FBV/L	= 2.9229	8
SECTION (1)BODY FLAP UPPER	DEPENDENT VARIABLE CP	a						
X/LB 1.0180 1.0460								
PH1 .00035783452 40.00039254133								

() () ()	TABH ATEN PRESCIPE DATA - DAILE (AMES 11-073-;)			¥d .	PAGE 5515
CATE 13 FEB /0	AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP UP		(XEBF48)	3) (D5 AUG	S 75 9
			PARAMETRIC	DATA	
HELENCE DATA				* /0000	85.000
SREF = 2590.0000 SO.FT. XMRP LREF = 474.8000 IN. YMRP SQUE = 936.0680 IN. ZMRP SCALE = .0300	= 1076.6800 IN. XO . 0000 IN. YO . = 375.0000 IN. ZO	RUDDER = BDFLAP = R-ELVN =	16.300 4.000	KACH KACH KACH)
۔ •	1) x -3.849 MACH x 1.2475 Q x 600.37	۵.	551.11	7 <u>/</u> %	* 3. UP41
SECTION (1)BODY FLAP UPPER	DEPENDENT VARIABLE CP				
X/LB 1.0180 1.0450					
PH1 .0003+573+72 40.00036393772					e C
ALPHA (1) = -4.005 BETA ((2) = .189 MACH = 1.2475 0 = 600.37	Q.	551.11	REAL L	3. UC# 1
SECTION (1) BODY FLAP UPPER	DEPENDENT VARIABLE CP				
X/LB 1.0180 1.0160					
PH1 . C.003+3+5+2+ . L. 00035653888			:	,	
ALPHA (1) = -4.015 BETA ((3) = 4.273 MACH = 1.2475 0 = 600.37	ſL.	* 551.11	1/84	5.057:
SECTION (1) BODY FLAP UPPER	DEPENDENT VARIABLE CP				
X/LB 1.0180 1.0460					
PH1 .000352+3589 .000385:010+			į	Š	7760
ALPHA (2) # .012 BETA ((1) = -3.869 MACH = 1.2460 0 = 599.92	Δ.	5.70 6. *	KAV L	
SECTION (1)BODY FLAP UPPER	DEPENDENT VARIABLE CP				
X/LB 1.0180 1.0450					
PHI 3633 3793 4. 000 3741 3852					

DATE 13 SEB 26 TABULATED	TABULATED PRESSURE DATA - OA146 (AMES 11-973-1)	.973-1)			PAGE	PAGE 5615
} }	AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP UP	ORB BODY FLAP UP		(XEBE#8)		
ALPHA (2) = .020 BETA (2) =		29.565 * 0	Q	■ 552.0 ⁴	FN/L .	3.6247
SECTION (1) BODY FLAP UPPER	CEPENDENT VARIABLE CP					
X/LB 1.0190 1.0460		v				
PH1 .00036143758 40.00037203943			•	į	ā	7.76
ALPHA (2) = .014 BETA (3) =	4.249 MACH = 1.2450	0 = 599.92	۵.	5. X	1/8	: :
SECTION (1)BODY FLAP UPPER	DEPENDENT VARIABLE CP		*			
X/LB 1.0180 1.0460						
FH1 .000. .000.00+						6
ALPHA (3) = 3.961 BETA (1) =	* -3.873 MACH * 1.2452	g = 500.15	Q.	552.05	1/2	3. Debe
SECTION (1) BODY FLAP UFPER	DEPENDENT VARIABLE CP					
X/LB 1.0180 1.0450						
1H9 44-85 7295 300. 40-800 4395 600.04				!		0 0 0 0
ALPHA (3) = 3.950 BETA (2) =	* .185 MACH * 1.2462	0 * 500.16	a .	• 552-15	1	
SECTION (1) BODY FLAP UPPER	DEPENDENT VARIABLE CP					
X/LB 1.0180 1.0460	No.					
PH; 000.00-3783 - 3906 90,000 - 3885 - 000,09				;	i	9
12 1 3 = 3.964 BETA (3) =	= 4.240 MACH = 1.2462	g # 600.16	۵	2. 255 2. 256 1.	<u>C</u>	٠. د د د د د د د د د د د د د د د د د د د
SECTION - 13BODY FLAP UPPER	DEPENDENT VARIABLE CP					
094011 081011 877X	:					
74) . 100 3874 3921 - 1020 3933 4103						

PASE 5517		3 0273				o. 60				3.02/3		
妝												
<u>a.</u>		-1 28 86			į	Ž.			ı	-1		
	(XE8F+8)	552.05			!	552.35				552.35		
						4						
		Ω.				O.				۵.		
	TAP UP	600.16				600.15				500.15		
_	<u>×</u>					•				×		
7	80											
11-073	/R ORB	ø				a				ø		
PRESSURE DATA - CAINB (AMES 11-073-1)	AMES 11-673(0A148) -140A/B/C/R OR8 BODY FLAP UP	-3.858 MACH = 1.2462	DEPENDENT VARIABLE CP			.178 MACH * 1.2452	DEPENDENT VARIABLE CP			4.235 MACH * 1.2462	DEPENDENT VARIABLE CP	
TA - CAI	310A14B)	1ACH	INT VARI			4ACH	ENT VAR			MACH	ENT VAR	
DAI	-673		Ž,			_	GNJ				DN3	
PESSURE	AMES 11	-3.858	930			.178	DEF			4.23	DE	
TABULATED PA		" =				# G				3) =		
BUL		-				_				-		
7		BETA (1) =	SECTION (1)BODY FLAP UPPER	20	38	BETA (2)	SECTION (1) BODY FLAP UPPER	90	30 93	BETA (3)	SECTION (11803Y FLAP UPPER	60
		gg	U.	8	4238 4238	aca-8	À.	£. :	4130 4083	9.003	AP	.: 5
		7.838	- 1ã - ≿:	Ω		α Ω	<u>ن</u> خ	2		9.0	اند خ	28
10			1800	0340.1 0810.1	#50#"-		3301	1.0180 1.0460	4028 3981) BC.	1.0195 1.0460
89		H	• •	,		#	~	-4		u F	-	pod
M M			<u>8</u>		140 1000 101	**	S		# 60 60 60 60 60 60 60 60 60 60 60 60 60 6	er	8	
1981 13 FEB 78	!	CE HEROTE	SECT	X E	T S	ALPHA (4) =	SEC	X//B	Ť 65 Å 7	ALPHA (4)	SEC	x/La
O	,	4 £		х		~		^		•		^

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ALPHA (5) # :1.933 BETA (1) #

SECTION (1180DY FLAP UPPER

1.0180 1.0460

£ 2

552.98

O

= 1.2450

.176 MACH

ري ج

ALPHA (5) = 11.941 BETA SECTION (1180DY FLAP UPPER

-,4:57 -,4036 -,4376 -,4537

40.000

1.0180 1.0450

3114'- 6524'-

PH1 .000 .40.000

DEPENDENT VARIABLE CP

Ž

552.98

599.95

0

-3.854 MACH * 1.2450

DEPENDENT VARIABLE CP

DATE 13 FEB 75

TABULATED PRESSURE DATA - CAIWB (AMES 11-673-1)

AMES 11-07310A148) -140A/B/C/R ORB BODY FLAP UP

* 599.95

SECTION (1) BOOY FLAP UPPER

-.4146 1.0180 1.0460 1.4093 PH1 .000 +0.000 X/LB

Q.

a

4.253 MACH = 1.2450 DEPENDENT VARIABLE CP

BETA (3) =

ALPHA : 51 = 11.935

• 552.98

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(358748)

CATE 13 FEB 76

TABULATED PRESSURE DATA - 04148 (AMES 11-073-1)

6199 307c

DATE 13 FEB 76 TABULATED FA	TABULATED FARSSORE DAIA - DAIAB (ANES 11-075-1)		
A	AMES 11-07310A148) -140A/B/C/R ORB BODY FLAP UP	UP (NEBF49) (DB AUS 15	
4 to 1 to		PARAMETRIC DATA	
ARRY GRAY	1076.6510 IN. XO .0000 IN. YO 375.0000 IN. ZO	RUDDER # -10.900 SPDSRK # B5.DD0 BDFLAP # 15.300 L+ELYN # 4.000 R-ELVN # 4.000 PACH # 1.150	000
E = .0300 A (!) = -4.022 BETA · (1) =	-3.848 MACH * 1.1001 0 * 600.26	.26 P = 708.59 FN/L = 3.1930	8
CN 1 1380	DEPENDENT VARIABLE CP		
X/LS 1.0180 1.0952			
PH: .000 - 39983968 .000.00			C
ALPHA (1) = -4,022 BETA (2) =	.189 MACH = 1.100! G = 500.26	1704 50:307 a	2
SECTION (1)BODY FLAP UPPER	DEPENDENT VARIABLE CP		
X/LB 1.0180 1.0450			
HP1			,
3, PHA 7 13 = -4, 029 BETA (3) =	4.271 MACH = 1.1001 Q = 600.26	.26 * 708.59 RN/L * 3.1930	1
SECTION (1)3007 FLAP UPPER	DEPENDENT VARIABLE CP		
X/LB 1.0180 1.0460			
PH) .00042594297 49.00047744791		•	į
ALPHA (2) = .025 BETA (1) *	-3,865 MACH = 1.1003 Q = 600	600.53 P = 708.50 RN/L = 3.193	ē
SECTION (1)300Y FLAP UPPER	DEPENDENT VARIABLE CP		
X/LB 1.0180 1.0460			

-.4113 -.4203 -.4118 -.4250

PH1 .000 40.630

DATE 13 FEB 76 TABULATED	TABULATED PRESSURE DATA - 0A148 (AMES 11-073-1	1-073-1				α.	PAGE 5620
	AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP UP	R ORB BODY	FLAP UP		(XE8F49)		
ALPHA (2) * .030 BETA (2) =	.186 MACH = 1.1003	•	= 600.53	۵	- 708.60	RN/L	3.1951
SECTION (1)BODY FLAP UPPER	DEPENDENT VARIABLE CP						
X/LB 1.0190 1.0450							
PH1 .000,35444090 40.00042204534						i	
ALPHA (2) * .026 BETA (3) *	4.247 MACH * 1.1003	•	. 600.53	٥.	- 708 .50	7 1	. S. 1921
SECTION (1)BODY FLAP UPPER	DEPENDENT VARIABLE CP						
X/LB 1.0180 1.6460							
PHI .03041054171 45.50044994652							• !
ALPHA (3) # 3,995 BETA (1) #	-3.867 MACH * 1.100 ⁶	5	600.49	٥.	- 70B.37	75. 1.	3.195
SECTION: (1)BODY FLAP UPPER	DEPENDENT VARIABLE CP						
X/LB 1.0180 1.0460							
7H1 .00043394391 .0004315	1						į
ALPHA (3) # 3.996 BETA (2) #	.185 MACH = 1.1004	0	600.49	۵.	- 708.37	.) - -	a 3. 1949
SECTION (1) BODY FLAP UPPER	DEPENDENT VARIABLE CP						
X/LB 1.0180 1.0460							
14c 0624 8314 000. 0654 8734 000.04							
ALPHA (3) = 3,999 BETA (3) =	4.239 MACH # 1.1004	o	64.009	۵.	708.37	7 7	3.1943
SECTION (1) BODY FLAP UPFER	DEPENDENT VARIABLE CP						
X/L9 1.0180 1.0450							
PH1 .000 4854 485 40.000 4893 482				ı			

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3.1930 PAGE 5622 SN/L (XEBF49) 710.48 AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP UP = 599.65 TABULATED PRESSURE DATA - OAI48 (AMES 11-073-1) O 4.250 MACH - 1.0980 DEPENDENT VARIABLE CP ALPHA (5) = 11.982 BETA (3) = SECTION (1) BODY FLAP UPPER 1.0180 1.0460 -.4655 -.4757 -.4703 -.4889 DATE 13 FEB 76 PH1 .000 40.000 X/LB

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PAGE 30c3	6 75)		85.000 4.000 .900	3.5763				3.5763				= 3.5763			C E L
PAG	(05 AUG 75	DATA	SPOBRK = L-ELVN = MACH =	RN/L				# L							į
	(XEBF50)	PARAMETRIC DATA	-10.000 16.300 14.000	- 1058.7				= 1058.7				1058.7			
			RUDDER = BDFLAP = R-ELVN =	a .				a				a			
•	OY FLAP UP			* 599.95				= 599.92				= 599.92			
11-073-1	C/R 0RB B0			ø				ø				a			
PRESSURE DATA - 0A148 (AMES 11-073-1)	AMES 11-07310A148) -140A/B/C/R ORB BODY FLAP UP		in. x0 in. y0 in. 20	MACH . 89970	DEPENDENT VARIABLE CP			MACH ≈ .89970	DEPENDENT VARIABLE CP			MACH ■ .89970	DEPENDENT VARIABLE CP		
TABULATED PRESSURE (= 1076.6800 = .0000 = 375.0000	(1) = -3.850	DEPE			i 2) = 188	3430			(3) * 4.267	3430		
ראן דר 13 FEB 75 TAI		REFERENCE DATA	= 2690. = 474. = 936.	SCALE = .uouu ALPHA (1) = -4.039 BETA (1)	SECTION (1) BODY FLAP UPPER	.B 1.0:80 1.0460	PH1 .00034923556 .43.00033503554	ALPHA (1) = -4.025 BETA	SECTION (1)BODY FLAP UPPER	.9 1.0180 1.0450	PHI .00033483353 40.00035463971	ALPHA (1) = -4.037 BETA	SECTION (1)BODY FLAP UPPER	.8 1.0180 1.0460	PHI .00032973251 40.00037614218
ار 14 15			SAFF	SCALE.	1338	X/LB	P	ALFIE	SEC	X/LB	Ŧ ;	ALPH	SEC	X/LB	£ 3

3.5763

PAGE 5623

1 1

RN/L

• 1060.0

599.04

-3.857 MACH * .89853 DEPENDENT VARIABLE CP

- ()

.032 BETA

ALPHA (2) =

SECTION (1)BODY FLAP UPPER

1.0180 1.0460

XILZ

-.3483

-.3443

DATE 13 FEB 76 TABULATED PRESSURE DATA - DA148 (AMES 11-073-1)	- 0A148 (AMES 11	-073-1					-	PAGE 5624	
	AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP UP	ORB BODY	FLAP 1	<u>Q</u>		(XEBF50)	2		
ALPHA (2) = .035 BETA (2) = .184 MACH	н ≠ .89853	•	- 599.04	a.		- 1060.0	RN/I	3.5758	
SECTION (1) BOOY FLAP UPPER PERDENT	PEPENDENT VARIABLE CP								
X/LB 1.0190 1.0460									
PHI .03031933390 40.00034583931							i		
ALPHA (2) = .028 BETA (3) = 4.248 NACH	н = .89853	•	■ 599.0 ^t	a Ž		- 1060.0		3.5/58	
SECTION (1) BODY FLAP UPPER DEPENDENT	DEPENDENT VARIABLE CP								
X/LB 1.0180 1.0460									
PHI .00033223305 40.000:37994092									
ALPHA (3) = 3.999 BETA (1) = -3.868 MACH	. 90073		= 600.62	9 9		1057.6	RN/L	3.5790	
SECTION (1)BODY FLAP UPPER DEPENDENT	DEPENDENT VARIABLE CP								
X/18 1.0460									
PH1 co33483470 31583288									
ALFHA (3) # 4.003 BETA (2) # .184 MACH	Е. 20073		= 600.62		•	• 1057.6	1	3.5790	
SECTION (1) BODY FLAP UPPER	DEPENDENT VARIABLE CP								
X/LB 1.0180 1.0460								•	
PH1 .00031063255 40.00033293657									
ALPHA (3) = 4,005 BETA (3) = 4,239 MACH	. 90073 ж	0	= 600.62		۵	= 1057.5	RN/L	= 3.579 0	
SECTION (1)BODY FLAP UPPER DEPENDENT	DEPENDENT VARIABLE CP								
X/LB 1.0180 1.0460									
PH1 .0003253491 43,00036473908								•	

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CATE 13 FEB 76 TABULATED F	TABULATED PRESSURE DATA - OAI48 (AMES 11-073-1)	1-073-1	_				ш.	PAGE	5625
	AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP UP	R ORB BO	Q ₽	AP UP		(XE8F50)			
ALP44 () = 8.040 BETA () =	-3.870 MACH = .89937	σ	H	599.61	٥.	1059.0	RNZ	,	3.577
SECTION (1)BODY FLAP UPPER	DEPENDENT VARIABLE CP								
X/LB 1.0180 1.0460									
PHI .00032783521 40.00031833318									
ALPHA (4) = 8.045 BETA (2) =	.178 MACH = .89937	o	#	599.61	۵	1059.0	FN/L	•	3.5771
SECTION (1) BODY FLAP UPPER	DEPENDENT VARIABLE CP								
X/L9 1.0180 1.0460									
PHI .00031673278 90.00032833599									
ALPHA (4.) = 8.043 BETA (3) =	. 4.236 MACH * .89937	ø	#	599.61	۵.	1059.0	RN/L		3.5771
SECTION : 13803Y FLAP UPPER	DEPENDENT VARIABLE CP								
X/LB 1.0180 1.0450									
PH1 .50033133296 .40.00035963737									
ALPHA (5) = 11.980 BETA (1) =	-3.854 MACH = .89910	o	H.	599.28	۵	1059.0	RN/L		3.5742
SECTION (1)BODY FLAP UPPER	DEPENDENT VARIABLE CP								
X/LB 1.0180 1.0450									
PH1 . COC33893512 4. COC32173415									
ALPHA (5) = 11.989 BETA (2) *	.180 MACH = .89910	o	H.	599.28	۵	= 1059.0	RN/L		3.5742
SECTION (!) BODY FLAP UPPER	DEPENDENT VARIABLE CP							•	
X/LB 1.0180 1.0450									
PH1 . GG0 3296 3397 . 40.323 3364 3578				•					

TABULATED PRESSURE DATA - OAI+8 (AMES 11-073-1) DATE 13 FEB 76

(XEBF50) AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP UP

= 3.5742

PAGE 5626

1059.0 RN/L ø 4.260 MACH = .89910 DEPENDENT VARIABLE CP ALPHA (5) = 11.979 BETA (3) = SECTION (1)BODY FLAP UPPER

1.0180 1.0460 X/LB

-.3276 -.3375 PHI .000 40.000

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DATE 13 FEB 76 TABULATED PRESSURE C	TABULATED PRESSURE DATA - OAI48 (AMES 11-073-1)	1-073-1			•		PAGE 5628
AMES 11-C	AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP UP	R ORB BODY	FLAP UP		(XEBF51)		
ALPHA (1) = -3.980 BETA (5) = 8.339	МАСН ≈ .59542	•	592.57	۵.	= 2387.9	RN/L	# 4.810#
SECTION (1) BODY FLAP UPPER	DEPENDENT VARIABLE CP						
X/LB 1.0180 1.0460							
PH1 .00026882693 40.00032793665							
ALPHA (2) * .060 BETA (1) = -7.891	MACH * .59620	•	593.99	۵	2387.5	RN/L	* 4.8200
SECTION (1)BODY FLAP UPPER DEPEN	DEPENDENT VARIABLE CP						
X/LB :.0180 1.0460							
PH1 .00029853023 40.00028273075							
ALPHA (2) = .070 BETA (2) = -3.863	MACH * .59620	•	593.99	۵	= 2387.5	FN/L	# 7.8200
SECTION (1)BODY FLAP UPPER DEPEN	DEPENDENT VARIABLE CP						
x/L3 1.0180 1.0460							
PHI 							
ALPHA (2) = .075 BETA (3) = .185	MACH = .59620	•	593.99	۵.	= 2387.5	RN/L	# ¥.8200
SECTION (1)BODY FLAP UPPER DEPEN	DEPENDENT VARIABLE CP						
X/L9 1.0160 1.0960							
FH1 .CCD26532807 +0.C0030153550							
ALP4A (2) = .070 BETA (4) = 4.248	MACH = .59620	e c	593.99	۵	= 2387.5	178	#.8200 # #
SECTION (1) BODY FLAP UPPER	DEPENDENT VARIABLE CP						
K128 1.0180 1.0460							
1Ha .030 2755. 1Ha .030 3843							

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CATE 13 FEB 76 TABULATED PRE	PRESSURE DATA - OAI48 (AMES 11-073-1)	1-073-1						6299 30vd	S.
	AMES 11-07310A148) -140A/8/C/R ORB BODY FLAP UP	R ORB BO	SY FLAP	8		(XEBF51)	•		
3.00 ± (2) ± (2) € (2) ± (2) ± (2) ± (3) ± (8.300 MACH = .59620	a	= 593.99		۵	= 2387.5	7/28 1/28	ar H	4.8200
SETTION (1) BODY FLAP UPPER	DEPENDENT VARIABLE CP								
X/LB 1.0180 1.0450									
PH1 .00027102627 40.63035453546									•
ALPHA (3) = 4,023 BETA (1) = -	-7.901 MACH ≈ .59564	a	= 593.05		۵.	- 2388.1	1/2	# #	¥.8156
SECTION (1)BODY FLAP UPPER	DEPENDENT VARIABLE CP								
X/LB 1.0180 1.0460									
PH; .000									
ALPHA (3) = 4.027 BETA (2) # -	-3.864 масн = .59564	o	= 593.05		<u> </u>	= 2388.1	PA/L	ai n	4.8166
SECTION (11800Y FLAP UPPER	DEPENDENT VARIABLE CP								
X/LB 1.0186 1.0460									
PE1 .000299+3181 .500029502970									
ALPHA (3) = 4.029 BETA (3) =	.191 MACH = .59564	o	= 593.05		a	- 2388.1	1/18	i I	4.8166
SECTION (1)800Y FLAP UPPER	DEPENDENT VARIABLE CP								
X.18 1.0180 1.0450								•	
.000. .00025892652 .000.04									
ALP44 (2) = 4.031 BETA (4) =	4.239 MACH = .59564	a	* 593.u5	č.	<u>a</u>	= 2358.1	PN/F	<i>*</i>	¥.8166
SECTION (1) BODY FLAP UPPER	DEPENDENT VARIABLE CF								
X/LB 1.0150 1.0450									
PH1 .030 2749 2919 .40.000 3158 3513									

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11-673-1
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DATA
PRESSURE 1
TAPE B ATED
1.50

PAGE 5631

4.8267 4.8257 4 . B358 Ž 1 ., Ž . i Z K (XE8F51) 2388.1 2387.5 2388.1 2388.1 592.81 592.81 AMES 11-07310A148) -140A/B/C/R ORB BODY FLAP UP 593.16 592.81 592.31 O O ø ø <u> 55. Joh</u> .59572 . 59550 DEPENDENT VARIABLE CP DEPENDENT VARIABLE OF DEPENDENT VARIABLE CP DEPENDENT VARIABLE CP DEPENDENT VARIABLE CP . 177 HACH .. MACH MACH MACH HACH -3.840 4.250 9.294 -7.547 * (7) ر S) ۽ (3) * i S BETA BETA BETA BETA 名には SECTION (1) BEDY FLAP UPPER SECTION (13800Y FLAP UPPER SECTION (1) BODY FLAP UPPER SECTION (1) BODY FLAP UPPER SECTION (1)9007 FLAP UPPER 1.0180 1.0450 -.2608 -.2726 -.2856 -.3136 1.0180 1.0450 -.2857 -.2675 -.291**6** -.286+ -.3271 1.2180 1.0460 1,0180 1.0460 1.0180 1.0463 41.PHA (5) = 12.002 ALPHA : 51 = 12.023 12.027 12.024 | 51 = 12.024 8.083 -.2781 -.2833 -. 3170 - . 3170 ALPHA : 53 = 3ATE 13 FEB 76 # (7.) #NOTE PH? .530 49.530 000.01 40,00**0** 87/X ō. E1/X Ħ n e7/x **m** 175

-.2656 -.3030 500 40,000

:1 K

(XE8F51)

CATE 13 FEB 75

TABULATED PRESSURE DATA - OAIMB ! AMES 11-073-!)

AMES 11-073:3A148) -140A/B/C/R ORB BOOY FLAP UP

= 592.5;

8.307 MACH = .59550 DEFENDENT VARIABLE CP ALPHA (5) = 12,010 BETA (5) = SECTION (1) BODY FLAP UPPER

1.0180 1.0462 X/LB

-.2592 -.2713 -.2977 -.3473 PH1 .000 40.000

PAGE 5633 25 AUS 75

XE8783

AMES 11-07310A1481 -140A/3/C/R ORS BODY FLAP UP

2.9139 ð DARAMETRIC DATA đį 1330. UP 南野 a. \$10.4E 500.45 1.3963 = 1.3953 DEPENDENT VARIABLE CP DEPENDENT VARIABLE OF DEPENDENT VARIABLE CP 4.258 MACH TOKE S MACH 1076.6900 IN. XO .0000 IN. YO 375.0000 IN. ZO 195 -3.360 ALPHA 1 19 # -4.050 BETA (1) # 3 ຄິ BETA SECTION : 11850/ FLAP UPPER SECTION (1) BODY FLAP UPPER SECTION & 138QD / FLAP UPPER REFERENCE DATA 2890-8000 50-67. 474-8000 IN. 936-880 IN. -.3164 -.3655 1.0180 1.0450 29m0 : 0e13": -. 3818 - 3171 -. 553\$ - 3765 1.0180 1.0460 540°+-の すご さ さ -. 3832 -. 355.-= (1) ∀He7¥ ALPHA (1) = 000.09 000.09 800.34 800.34 X/E X/LB X/LE

X/L9 1.0180 1.5450

SECTION I LIBODY FLAP UPPER

This a

<u>``</u>

439.75

600.78

ø

≖ 1.3971

HACH

-3.878

BETA

ALP-4 : 23 = -.327

-.3260 -.3232 -.3517 -.3654

114 1000 40.000 DEPENDENT VARIABLE CP

.000 -.3264 -.3200 40.000 -.3576 -.3552

PAGE 5534	(X):8F32)	# 439,70 RW: # 2.915				* 439.70 FBVL * 2.9154				* 439.71 RN/L * 2.3092				* 439.71 RN/L * 2.9092				# 439.71 RN/L # 2.9092			
	FLAP UP	600.76 ¥				9 87 US				300.16 P		5. Fr	etris A	500.16 P		era	arus med	500.15 P		93	
ESSURT LATA - DATES (AVES 11-073-1)	AMES 11-073: 3) -1485/B/C/R ORB 90 % FL	. 172 . н. 1.3971 о	DEPE V BLE CP				T. ARIABLE CP			-3.886 MACH = 1.3964 0 =	DEPENDENT VARIABLE CP			.174 MACH = 1.3964 0 =	DEPENDENT VARIABLE CP			4,236 MACH = 1.3964 0 =	DEPENDENT VARIABLE CP		
CATE 13 FEB 76 TABULATED PRESSUR.		A.PHA (2) 013 BETA (2) .	SECTION (11800Y FLAP UPPER	X/LB 1.0180 1.0460	PH13307	356+ 3663	4LPHA (2) *015 BETA (3) * CENTIAN (1) DONY FLUD HOPER	X/LB 1.0180 1.0460	PH1 .00033783413 un 000 - 3472 - 3539	3.910 BETA (1) =	SECTION (1) BODY FLAP UPPER	X/LB 1.0180 1.0460	PH1 .00033893488 40.00033093417	ALPHA (3) = 3.912 BETA (2) =	SECTION (1) BOOY FLAP UPPER	X/LB 1.0180 1.0450	PH1 .00034293431 40.00032593330	ALPHA (3) = 3.916 BETA (3) =	SECTION (1)BODY FLAP UPPER	X/LB :.0180 1.0450	PH1 .00034983543 40.00033283423

DATE 13 FEB 76 TABULATED P	TABULATED PRESSURE DATA - DAIYB (AMES 11-073-1)			PAGE 5635
	AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP UP	_	(XEBF52)	
ALPHA (4) = 7.922 BETA (1) =	-3.876 MACH = 1.3965 Q = 599.65	e G	■ 439.24	RN/L = 2.9107
SECTION (1) BODY FLAP UPPER	DEPENDENT VARIABLE CP			
X/LB 1.0180 1.0460				
PH1 .00036353659 49.00033623323				
ALPHA (4) = 7.930 BETA (2) =	.169 MACH = 1.3965 0 = 599.65	e. IQ	* 439.24	RN/L • 2.9107
SECTION (1) BODY FLAP UPPER	DEPENDENT VARIABLE CP			
X/LB 1.0150 1.0463				
PHI .00035793636 +0.00032813314				
ALPHA (4) = 7.931 BETA (3) =	4.235 MACH * 1.3965 Q * 599.65	ال م	* 439.24	RN/L = 2.910/
SECTION (1) BODY FLAP UPPER	DEPENDENT VARIABLE CP			
X/LB 1.0180 1.0460				
PH1 .00035953645 +0.00032773421				
ALCHA (5) = 11.858 BETA (1) =	-3.866 MACH = 1.3951 Q = 600.34	e.	= 440.65	RN/L = 2.9156
SECTION (1)BODY FLAP UPPER	DEPENDENT VARIABLE CP			
X/LB 1.0180 1.0460	<u> </u>			
PH1 .00036933695 40.00034003229				
ALP4A (5) = 11.867 BETA (2) =	.167 MACH * 1.3951 0 = 600.34	a Z	= 440.65	RN/L * 2.9166
SECTION (1)BODY FLAP UPPER	DEPENDENT VARIABLE CP			
X/LB 1.0180 1.0460				
PH1 .00035503697 40.00033523345	.*	i		

				Ω.	PAGE 5636
DATE 13 FEB 75 TABULATED P	TABULATED PRESSURE DATA - UNITE I AMES II-475-1				•
	AMES 11-07310A1481 -140A/8/C/R ORB BOOY FLAP UP	tau n	(XEBF52)		·
ALP.4 (5) = 11.865 BETA (3) =	4.248 MACH = 1.3951 Q = 600.34	a	140.65	RN/L	- 2.9155
SECTION (1) BODY FLAP UPPER	DEPENDENT VARIABLE CP				<u>-</u>
X/LB 1.0180 1.0460					
PH1 .000 -,3652 -,3706 40.000 -,3496 -,3720					
ALPHA (6) = 15.826 BETA (1) =	-3.845 MACH = 1.3947 Q = 600.64	a .	- 441.12	TXE TX	2.9332 2.9332
SECTION ! 1)BODY FLAP UPPER	DEPENDENT VARIABLE CP				
X/LB 1.0160 1.0460					
PH1 .00036633623 40.00036893750					
ALPHA (6) = 15.841 BETA (2) =	.16* .CH = 1.3947 Q = 600.64	a	= 441.12	RN/L	= 2.9102
SECTION (1)800Y FLAP UPPER	DEPENDENT VARIABLE CP				~
X/LB 1.0186 1.0460					
PH1 .00036273535 40.00039314077					
ALPHA (E) * 15.833 BETA (3) =	4.274 MACH = 1.3547 0 * 600.64	٠	- 441.12	FN/L	2016.5 ■
SECTION (1)BODY FLAP UPPER	DEPENDENT VARIABLE CP				
X/LB 1.0180 1.0450					
PHI .000 +.363+3+05 .00039364107					
			·		

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5637	- / 2	- -	55.000 1.250	3.0066				3.0059				3.0068				3.0119				
PAGE	<u>ş</u> .	-										#			•	M				
<u>o</u> .	3) (05	DATA	SPOBRK = L-ELVN = MACH	RN/L		• .		1/20				T/NE				RN/L				
	(XE8F53)	PARAMETRIC	16.300 16.300 4.000	551.79				551.79				551.79				552.04				
		Œ.		•					•			#								
	y. **		RUDDER BOFLAP BR-ELVN	<u>a</u>		•		Q.	* **			۵.				۵				
Assertion of the second	FILAP UP			597.22			e e e e e e e e e e e e e e e e e e e	597.22				597.22				599.32				
73-1)	B 800Y	···.		N .				#												
	_ B	- :-		0				Ø				0				0				
	B/C/R	·									· · · · ·									
PSSIRE DATA - DAITH (AMES 11-	A148) -140A		1076.6900 IN. XO .0000 IN. YO 375.0000 IN. ZO	-3.860 MACH = 1.2435	DEPENDENT VARIABLE CP			.182 MACH = 1.2435	DEPENDENT VARIABLE CP		. T	4.271 MACH = 1.2435	DEPENDENT VARIABLE CP			-3.861 MACH = 1.2454	DEPENDENT VARIABLE CP			
TABLE DATE DATE DATA	A A	REFERENCE DATA	H YARD #	36 BETA (1) =	SECTION (1) AODY FLAP UPPER	0 1.0460	73916 24469	-4.029 BETA (2) #	SECTION (1)800Y FLAP UPPER	1.0190 1.0450	39593918 43884510	-4,033 BETA (3) =	BODY FLAP UPPER	.0180 1.0460	.40164049 .42984466	011 BETA (1) =	BOOY FLAP UPPER	.0180 1.1460	. 2960 - ,4392 . 4392 - ,4392	
); ' '	(E	2590.0000 9 474.8500 935.0580	7	Ö	1.0180	3907	1	င္ကို	3.6	ği X	•	8	0.	7 7		ᄶ	5	N 3	

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DATE 13 FEB 76 TABULATED PRI	PRESSURE DATA - DAING (AMES 11-073-1	11-073-1)			ā.	PAGE 5638
₹	AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP UP	C/R ORB BODY FLAP UF		1XEBF531		
ALPHA (2) * .001 BETA (2) =	.178 MACH = 1,2454	0 - 599.32	<u>a,</u>	* 552.04	RNAL	= 3.01:
SECTION (1) BODY FLAP UPPER	DEPENDENT VARIABLE CP					
X/LB 1.0180 1.0460		· • •				
PHI .00040224111 .00042254343						
ALPHA (2) * .000 BETA (3) =	4.247 MACH = 1.2454	0 = 599.32	a .	= 552.04	HA/L	3.0119
SECTION (1)BODY FLAP UPPER	DEPENDENT VARIABLE CP	* .	Po - k	,		
X/LB 1.0180 1.0460			e ar			
PHI COO. COO. COO. COO. COO. COO. COO. COO						<u>-</u>
ALPHA (3) = 3.944 BETA (1) =	-3.877 MACH = 1.2467	. 599.84	۵	* 551.34	1 / 2	* 3.0123
SECTION (1) BODY FLAF UPPER	DEPENDENT VARIABLE CP	· · ·				
X/LB 1.0180 1.0460						
PH1 .00038533530 40.00036383718					* .	
4,7HA (3) = 3.945 BETA (2) =	.180 MACH = 1.2467	48.665 = 0	۵.	- 551.3	J'NE	3.012
SECTION (1) BODY FLAP UPPER	DEPENDENT VARIABLE CP			•		
X/LB 1.0180 1.0460						
PH1 .00039543987 40.00035853628						
ALPHA (3) = 3.949 BETA (3) =	4.232 MACH = 1.2467	0 = 599.84	۵.	* 551.34	RN/L	= 3.012
SECTION (1) BODY FLAP UPPER	DEPENDENT VARIABLE CF	1				
X/LB 1.0180 1.0460		: . V.				• • •
PH1 .000 ~.3965 ~.4000 40.000 ~.3690 ~.3712		n de la companya de l	ı			

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DATE :3 FEB 76 TABULATED PR	TABULATED PRESSURE DATA - OAI48 (AMES 11-073-1)	11-073-1			D.	PAGE 5639	
•	AMES 11-07310A148) -140A/B/C/R ORB BODY FLAP UP	TR ORB BODY FLAP UP		(XEBF53)			
ALPHA (4) = 7.975 BETA (1) =	-3.876 MACH = 1.2465	Q = 599.91	۵.	= 551.57	RN/L	= 3.0143	•
SECTION (1) BODY FLAP UPPER	DEPENDENT VARIABLE CP						
X/LB 1.0190 1.0460							
PH; .000 -,4080 -,4101 40.000 -,3704 -,3706							
ALPHA (4) = 7.918 BETA (2) =	.169 MACH * 1.2465	Q = 599.91	۵	= 551.57	RN/L	= 3.0143	
SECTION (1)BODY FLAP UPPER	DEPENDENT VARIABLE CP					. :	
X/LB 1.0180 1.0460		•					
18214 8804 000. .00040884128				•			
4LPHA (4) = 7.882 BETA (3) =	4.233 MACH = 1.2465	Q = 599.91	۵	= 551.57	RN/L	= 3.0143	
SECTION (1)BODY FLAP UPPER	DEPENDENT VARIABLE CP						
X/LB 1.0180 1.0460							
PHI .50041194168 40.00037153812							
ALPHA (5) = 11.916 BETA (1) =	-3.857 MACH = 1.2482	0 = 600.48	<u>α</u> ,	= 550.64	RN/L	3.0151	
SECTION (1)BODY FLAP UPPER	DEPENDENT VARIABLE CP						
X/LB 1.0180 1.0460					-		
PHI .50041224134 .0.00039503952							
ALPHA (5) = 11.930 BETA (2) =	.181 MACH = 1.2482	94.009 = 0	a .	= 550.64	RNIL	3.0151	
SECTION (1) BODY FLAP UPPER	DEPENDENT VARIABLE CP						
X/LB 1.0180 1.0460							
PH1 .00041604231 40.00039083990							

_									
	PAGE 5540		RN L = 3.0151	:					
		(XE8F53)	550.64						
	ES 11-073-1)	1-073(0A148) -1494/B/C/R ORB BODY FLAP UP	# GO # 600.48 P						
	TABULATED PRESSURE DATA - OAL48 (AMES 11-073-1	AMES 11-073(0A148) -1434/8	3) = 4.245 MACH = 1.2482	PEPENDENT VARIABLE OF					
•	DATE 13 FEB 75 TABUL		ALPHA (5) # 11.925 BETA (3) #	SECTION (1) BODY FLAP UPPER	X/L8 1.0180 1.0460	PH1 .00042274336 40.50039304053	•	,	

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TABULATED PRESSURE DATA - DAINB (AMES 11-073-1)

AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP UP (XE	(XEBF 34)	1 05 AUG 75 N	
REFERENCE DATA	PARAMETRIC DATA	TA .	
SREF = 2690 0000 50.FT. XMRP = 1076.6800 IN. XO LREF = 474.8000 IN. YMRP = .0000 IN. YO BREF = 936.0680 IN. ZMRP = 375.0000 IN. ZO SCALE = .0300	-10.000 16.300 1.000 1.000	SPDBRK = 35.000 L-ELVN = -4.000 MACH = 1.100	
ALPHA (1 % = 4.5.970 BETA (1) * -3.853 MACH = 1.1014 Q = 600.89 P = 707.6	- 707.69	RN/L = 3.1837	
SECTION (1) 30DY FLAP UPPER DEPENDENT VARIABLE CP			
X/LB 1.018G 1.0450			
3854 1814 000.34 1814 000.34 1814 1818 1818.			
ALPHA (1) = -3.931 BETA (2) = .192 MACH = 1.1014 Q = 600.89 P = 707.8	= 707.59	RN/L + 3.1837	
SECTION (1)BODY FLAP UPPER DEPENDENT VARIABLE CP			
X/L8 1.6:30 1.0460			
FHI : 39613982 : 00039613982 #0.000557557			
ALPHA (1) # -3.991 BETA (3) = 4.263 MACH = 1.1014 0 = 500.89 P = 707.6	- 707.69	RN/L = 3.1837	
SECTION 1 1:800Y FLAP UPPER DEPENDENT VARIABLE CP			
X/EB 1.0180 1.0460			
P#1 .000 + +059 +158 -40.000 + +538			
ALPHA (2) = .009 BETA (1) = -3.870 MACH = 1.1014 0 = 600.89 P = 707.6	± 707.69	RN/L = 3.186+	

DEPENDENT VARIABLE CP

SECTION (1) BODY FLAP UPPER 1.0180 1.0460

PH1 . 300 40. 000

-.4051 -.3938

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	TE 13 FEB 78 TABLATED PRESSURE DATA - DAINB (AMES 11-073-1)	TE 13 FEB 78	TE 13 FEB 78 TABUMATED PRESSURE DATA - DA148 (AMES 11-073-1) (XEPF54) AMES 11-073(DA148) -140A/B/C/R ORB BOOY FLAP UP (XEPF54) THA (2) * , 092 BETA (2) * , 176 MACH * 1.1014 Q * 600.89 P * 707.69 RN/L	FAGE TABLE DATE TABLE DATA - DAIMB (AMES 11-073-1)	PAGE 13 FEB 78 TABULATED PRESSURE DATA - DATUB (AMES 11-073-1)	13 FEB 78	13 FEB 78	3 FEB 76 TABULATED PRESSURE DATA - DA148 (AMES 11-073-1)	3 FEB 78 TABLE ATED PRESSURE DATA - DAIVB (AMES 11-073-1)	13 FEB 76 TABIC PRESSURE DATA - DAIWB (ANKES 11-073-1)	13 FEB 76 TABIL ATED PRESSURE DATA - DAIWB (AMES 11-073-1) TABIL ATED PRESSURE DATA - DAIWB (AMES 11-073-1) TABIL ATED PRESSURE DATA - DAIWB (AMES 11-073-1) TABIL ATED PRESSURE DATE	13 FEB 78	13 FEB 76	13 FEB 76	13 FEB 76	13 FEB 76	13 FEB 76	13 FEB 70	13 FEB 76 1980 1980 1980 1980 1980 1990 19	13 FEB 76	13 FEB 76	13 15 16 17 17 17 17 17 17 17	13 FEB 76	13 FEB 76	13 TEB 14 TEB 1

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	 	ABULATED PRESSURE DATA - DAIMB (AMES 11-073-1
		TAB

3.1852 (XEBTSY) 16.707 AMES 11-073(0A1+8) -146A/B/C/R ORB BODY FLAP UP 600.53 -3.871 MACH = 1.1009 9ETA (1) =

DEPENDENT VARIABLE CP SECTION I I BODY FLAP UPPER

ALDHA (4) = 7,806

DATE 13 FEB 76

1.0180 1.0450 -,4550 -,4584 -,4190 -,4584 .000 40.000

¥. 107.91 600.53 DEPENDENT VARIABLE CP MACH ALPHA (4) = 8.005

SECTION (1) BODY FLAP UPPER

000° X/LB

ž 707.91 600.53 = 1.1009 MACH 4.25.4 ALPHA (4) = 8.008 BETA

DEPENDENT VARIABLE CP SECTION () BODY FLAP UPPER

1.0160 1.0463 E7/X

-.4578 -.4567 -.4437 -.4361 000. 40.009

ž 708.13 600.31 -3.854 MACH * 1.1005 **BE1** LPHA (5) = 11.922

DEPENDENT VARIABLE CP SECTION (11SODY FLAP UPPER

600.31 MACH = 1.1005 DEPENDENT VARIABLE CP .179 BETA ALPHA (5) = 11.94;

Z L

708.13

1.0130 1.0450

PAGE 5643

1.0:80 1.0460

-.4632 -.4577 -.4427 -.4510 .000 40.030 SECTION (1) BODY FLAP UPPER

C.

1.0180 1.0450

-.4452 -.4553 -.4260 -.4248

- .4453 - .4347

± 3. Þ932 PAGE 554 Z (KEB-DE) 708.13 AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP UP * 600.31 TABULATED PRESSURE DATA - DAING (ANES 11-073-1) ø = 1.1005 DEPENDENT VARIABLE CP MACH 4.239 BETA (3) = SECTION : LIBODY FLAP UPPER 1.018D 1.0450 7.484. - 1484. -ALPHA (5) # 12.005 DATE 13 FEB 76 PH1 .000 40.000 X/LB

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DATE 13 FEB 76 TABULATED PRESSU	PRESSURE DATA - DAINB (AMES 11-073-1)	1-073-1			PAGE ESTE
AMES	AMES 11-07310A148) -140A/B/C/R GRB BODY FLAP UP	R ORB BODY FLAP	<u>9</u> 5	(XEBF35)	
. = (5) BETA (2) = .1	.167 MACH = .89883	0 = 599.16	16 P	1059.5	PMIT = 3.5839
SECTION (1) BOOY FLAP UPPER	DEPENDENT VARIABLE CP				
X/LB 1.0180 1.0450		\			
PH1 .003 ~.2865 ~.3056 40.003 ~.298! ~.3393					
ALPHA (2	. 244 MACH * . 89883	0 = 599.16	91	• 1039.5	FBV/L = 3.5854
SECTION (1) BODY FLAP UPPER	DEPENDENT VARIABLE CP				
X/LB 1.0180 1.0460					
PH1 .00029383101 +0.0003753321					
ALPHA (3) = 3.946 BETA (1) = -3.6	-3.879 MACH = .89970	26.963 * 0	a. 26	= 1058.7	SAVE = 2 SBS
SECTION (1) BCDY FLAP UPPER	DEPENDENT VARIABLE CP				
125-0.1 detd.1 81/X					
1Hg .c.b31353099 40,0002978 - 3585					
ALPHA (3) = 3.951 BETA (2) = .1	.176 KACH ≈ .83970	26.665 = 0	84. er	F. 1058.7	RN/L = 3.5862
SECTION (1) BODY FLAP UPPER	DEPENDENT VARIABLE CP				
X/LB 1.0180 1.0962					
H4; 00°; 29:5 - 3105 90:00 - 2975 - 3113			:		
ALPHA (31 = 3.956 BE7A (3) = 4.4	4.235 MACH = .P3970	0 = 599.92	84	- 1058.7	RV/L = 3.5637
SECTION (1)BODY FLAP UPPER	DEPENDENT VARIABLE CP				
X/LB 1.0180 1.0460					
PHI .00029673088 .00029743073					

DATE 13 FEB 76 TABULATED	D P7ESSURE DATA - 04148 (AMES 11-073-1)	1-073-1				<u>a</u>	PAGE 5647
	AMES 11-073(04148) -1404/8/C/R ORB BODY FLAP UP	ORB BODY FLAP UP			(XE8F55)		
AL PHA (4) = 7.893 BETA (1) =	= -3.376 MACH * .89863	0 = 599.02	٥.	- 1	1059.8	PN/L	3.5893
SECTION (1) BODY FLAP UPPER	DEPENDENT VARIABLE CP	e de la companya de l					
X/L3 1.0190 1.0460		· .					
PH1 .00030953099 .40.00529482979		e Set a set son		***	<i>‡</i>		
ALPHA (4) = 8.030 BETA (2)	= .173 MACH = .89863	. 599.02 ± 0	٥		8.6501	RN/L	= 3.5893
SECTION (1) BODY FLAP UPPER	DEPENDENT VARIABLE CP	ta t					
X/L3 1.018C 1.04S0							
PH1 .00020992983 40.00027442860		To a subsequence					a arr
ALPHA (4) = 8.015 BETA (3)	* 4.230 MACH = .89863	0 = 599.02	ο.	#	8.6501	EN/L	3.5893
SECTION (1) BODY FLAP UPPER	DEPENDENT VARIABLE CP	1			•		
. X/LB 1.0180 1.0450		, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			,		4
PH; . 600 - 3;16 - 3079 . 40.000 7775							.
ALPHA (5) = 11.973 BETA (1)	= -3.861 MACH = .89910	64.665 = 0	۵.	*	. 2.6501	7	3.5890
SECTION (1)BODY FLAP UPPER	DEPENDENT VARIABLE CP						•
X/LB 1.0:80 1.3460		• - •				• •	
PH1 .00033333317 40.00030312936							Agran ing
ALPHA (5) = 11.387 BETA (2)	= .182 MACH = .89910	0 * 599.49	a .	•	1059.5	RN/L	= 3.5890
SECTION (1)BODY FLAP UPPER	DEPENDENT VARIABLE CP	(s.					
X/LB 1.0180 1.0450				•••			
PHI .0003170 .0002812919	at the a			t- H.v. 18			

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AMES 11-073-1	AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP UP	-	• • •		
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DATE 13 FEB 76		A. PHA (5) = 12.005 BETA	SEC	X/LB	7 9
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		REFERENCE DATA	<u>.</u>	86	45	90	38	8	UPPE	20	88 2	ă	משט	99	37.	<u> </u>	lddn	99	8 8
		NCF	S0. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7.	4	ΑĀ	1.0460	2438 3116	7.1	AP.	1.0460	2388	‡	LAP	1.0460	2476	Ω.	LAP	1.0460	2559
		FERE	8888	440.4-	ί <u>.</u> ≿:			-3.971	F			-3.944	<u>+</u>			-3.952	ا.نا خ		
29		씵	2690.0000 474.8000 936.0580	'	1)BODY FLAP UPPER	1.0180	2 459 2775		SECTION (1:BODY FLAP UPPER	1.0180	2482		SECTION (11800Y FLAP UPPER	1.0180	2417		SECTION (1) BODY FLAP UPPER	1.0180	2441 2741
CATE 13 FEB 76			269 17.40 13.	2	-	-		=======================================	-			=======================================	-	-		= =	-	_	
13 F			n n n n		Š		6 00		2		PH1 .060 40.030	_	8		PH1 .000 .000	_	Š		PH1 .000 40.000
녣			SREF LPEF BREF SCALE	ALPHA (SECT: ON	X/LB	PH1 .000 45.000	ALPHA (SEC 1	X/LB	FH. 0.	ALPHA (1)	ECT.	X/LB	P. 65	ALPHA (1)	SECT	X/LB	£ 3
పే			ጸቻቹያ	₹	U)	×		₹	U,	×		₹	٠,	×		¥	₩.	×	

PAGE 3650	(XEBF56)	.6 RN/L = 4.8797				.6 RW/L * 1.8906		-		.6 RN/L * 4.8905				.6 RN/L = 4.8906				.6 RN/L = 4.8906			
•	i XE	- 2385.6				= 2385	: .:			= 2382				# 2385				- 238			- 14 A
	BODY FLAP UP	- 594.66 P				* 595.74 P	ud 1.	93 <u>.</u>	.t.	= 595.74 P			# H	= 595.74 P		•		= 595.74 P		.faqt	i k
RESSURE DATA - DATHE (AMES 11-073-1	AMES 11-073(0A148) -140;/B/C/R ORB BODY FLAP UP	8.330 мАСН = .59674 0	DEPENDENT VARIABLE CP			-7.901 MACH = .59728 Q	DEPENDENT VARIABLE CP			-3.873 MACH = .59728 0	DEPENDENT VARIABLE CP	energy of	ti ting	.179 MACH = .59728 0	DEPENDENT VARIABLE CP			4.242 MACH * .59728 0	DEPENDENT VARIABLE CP		
TABULATED PRESSURE		-3.967 BETA (5) =	DY FLAP UPPER	80 1.0460	86 2583 52 1358	.082 BETA (11) *	OY FLAP UPPER	80 1.0460	382498 743117	.093 BETA (2) =	MY FLAP UPPER	1.0180 1.0%60	35 - 2529 102 - 3016	.095 BETA (3) =	JOY FLAP UPPER	1.0450	193 - 2620 754 - 3055	* (+) * ETA (+) *	SECTION (1) BODY FLAP UPPER	0180 1.0460	4772568 1923113
2ATE 13 FEB 76	•	ALPHA (1) =	SECTION (1) BODY FLAP UPPER	X/L8 1.0180	PHI .0002586 +0.0002652	ALPHA (2) =	SECTION (1) BODY FLAP UPPER	X/L8 1.0180	PHI .000 2538 40.000	ALPHA (2) =	SECTION 1 11BODY FLAP UPER	x/LB 1.01	PH1 .0002435 +0.0392802	ALPHA: (2) =	SECTION (1)BODY FLAP UPPER	X/LB 1.0180	PHI .0002493 .000.04	ALPHA (2) =	SECTION (1)BC	X/LB 1.01	PH1 .0002477 .00.004

<u>:</u>

	AMES
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	TABULATED
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A A	AMES 11-073(04148) -140A/B/C/R ORB BODY FLAP UP		(XEBF56)		
ALPHA (2) * .089 BETA (5) =	8.298 HACH * .59728 0 * 595.74	a.	= 2385.6	RN/L	9068.4
SECTION : 1)BODY FLAP UPPER	DEPENDENT VARIABLE CP				
X.L9 1.0180 1.0460					
PH1 .00026972792 40.000 +.26952928					
ALPHA (3) * 4.036 BETA (1) * -	-7.914 MACH = .59696 0 = 595.02	۵	= 2385.3	RN/L	- 4.8897
SECTION (1) BODY FLAP UPPER	DEPENDENT VARIABLE CP				
X/LB 1,0180 1.0460					
741 .coc - 2592 - 2585 40,000 - 2897 - 3154					
ALPHA (3) = 4.041 BETA (2) =	-3.875 MACH = .55696 0 = 595.02	Q.	= 2385.3	3	- 4.8897
SECTION (1) BODY FLAP UPPER	DEPENDENT VARIABLE CP				
X/LB 1.0180 1.0460					
PHI ,00025442622 40,00028043088					
ALPHA (3) = 4.696 BETA (3) =	.178 MACH = .59696 0 = 595.02	٥	= 2385.3	RN/L	. 4.8897
SECTION (1) BODY FLAP UPPER	DEPENDENT VAN: ABLE CP				
X/LB 1.0180 1.0450	A.7				
PH) , d0024652552 +0,00025522845			A STATE OF		

DEPENDENT VARIABLE CP

SECTION (1)BOOY FLAP UPPER

3.977

ALPHA (3) =

..0180 1.0460

4.232 MACH

<u>(j</u>.

DATE 13 FEB 76 TABILIATED PRESSUR	PRESSURE DATA - DAINB (AMES 11-073-1)	1-073-1				<u>a</u>	PAGE 5552
AMES 1	AMES 11-07310A148) -140A/B/C/R ORB BODY FLAP UP	R ORB BODY	FLAP UP		(XE8F56)		
ALPHA (3) = 4.0:1 BETA (5) = 8.279	9 MACH ≈ .59696	•	595.02	۵	= 2385.3	RN/L	± 4.8897
SECTION (1:800Y FLAP UPPER	DEPENDENT VARIABLE CP		÷				
X/LB 1.0180 1.0460	•						
PH1 .00028202973 %0.000250825%8							
ALPHA (4) = 8.004 BETA (1) = -7.903	3 MACH = .59678		594.78	۵	= 2385.7	RN/L	= 4.8929
SECTION (1)BODY FLAP UPPER DE	DEPENDENT VARIABLE CP						
X/LB 1.0!80 1.0460	•						
PH) .00026362683 40.00029503307	ţ						
ALPHA (4) = 8.017 BETA (2) = -3.872	2 MACH = .59678		594.78	•	- 2385.7	RN/L	e 4.8929
SECTION (1) BODY FLAP UPPER DE	DEPENDENT VARIABLE CP						
X/L3 1.0180 1.0460							
PH) , GD0 2628 2689 40, OD0 2763 3053							
ALPHA (4) = 7.965 BETA (3) = .166	6 MACH = .59678	0	594.78	۵.	= 2385.7	RN/L	# 4.8929
LICTION (1)800Y FLAP UPPER DE	DEPENDENT VARIABLE CP	·					
X/L8 1.0180 1.0450							
PHI . 000 2583 2616 40.000 2580 2703					*** **		
ALPHA (4) = 7.931 BETA (4) = 4.229	9 MACH = .59678		594.78	Q.	= 2385.7	RN/L	• 4.8929
SECTION (1.1BODY FLAP UPPER DE	DEPENDENT VARIABLE CP						
X/LB 1.0180 1.0460							
PH1 .00026712913 40.5502548							

DATE 13 FEB 76 TABULATED P	PRESSURE DATA - OAI48 (AMES II-073-1)	11-073-1	_					PA	PAGE 5653	53
	AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP UP	'R ORB BI	DDY FLA	a a a		i X	(XE8F56)			
ALPHA (4) = 7.987 BETA (5) =	8.286 "ACH = .59678	o	* 56	594.78	a	= 2385.7		RN/L	± ±	4.8929
SECTION (1) BODY FLAP UPPER	DEPENJENT VARIABLE CP									
X/LB 1.0180 1.0460										
PH1 .00030383035 40.00025162570										
ALPHA (5) = 11.920 BETA (1) =	-7.867 MACH * .59670	o	59	594.67	۵	- 2385.8		RN/L		4.8946
SECTION (1)BODY FLAP UPPER	DEPENDENT VARIABLE CP									
X/LB 1.0180 1.0460										
PHI .00025792770 40.0003956				•						
ALPHA (5) * 11.942 BETA (2) =	-3.850 MACH = .59670	σ	* 59	594.67	۵.	= 2385.8		RN/L .	÷	4.8946
SECTION (1)BODY FLAP UPPER	DEPENDENT VARIABLE CP									
X/LB 1.0180 1.0460										
PH1 .00027402875 40.00026692867										
ALPHA (5) = 12.055 BETA (3) =	, 1F5 MACH = .59670	a	50	594.67		= 2385.8	B RN/L		* *	4.8946
SECTION (1)BODY FLAP UPPER	DEPENDENT VARIABLE CP									
X/L8 1.0180 1.0460										
PHI .00026802675 .0.000243+2578										
ALPHA (5) = 12.053 BETA (4) =	4.239 MACH = .59570	O	59	594.67	۵	= 2385.8	B RN/L		# #	4.8945
SECTION (1)BODY FLAP UPPER	DEPENDENT VARIABLE CP									
X/LB 1.0180 1.04C0										
PHI .00028952808 40.00023825557					i					

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TABULATED PRESSURE DATA - DAIMB (AMES 11-073-1) DATE 13 FEB 76

AMES 11-07310A148) -140A/B/C/R ORB BODY FLAP UP

8.299 MACH * .59670 DEPENDENT VARIABLE CP ALPHA (5) = 12.101, BETA (5) = SECTION (1)BODY FLAP UPPER

1.0180 1.0460

-.2812 -.2899 -.2411 -.2791 PH1 .300

2385.8

3

a 4.8946

(XE8F56)

PAGE 5054

PA0E 3655	(XEBF57) (05 AUG 75)	PARAMETRIC DATA	RUDDER = 10.000 SPOBRK = 55.000 BOFLAP = 16.300 L-ELVN = 4.000 R-ELVN = -4.000 MACH = 1.400	P = 441.59 RN/L = 2.9055				P = 441.59 RN/L = 2.5055				P = 441.59 RN/L = 2.9055		•		P = 441.36 RN/L = 2.9062			
DATE 13 FEB 76 TABULAT'D PRESSURE DATA - OAIWB (AMES 11-073-1)	AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP UP	REFERENCE DATA	SAEF = 2590.0000 SQ.FT. XMRP = 1076.6800 IN. XO LREF = 474.8000 IN. YMRP = .0000 IN. YO BREF = 936.0580 IN. ZMRP = 375.0000 IN. ZO SCALE = .0300	ALPHA (1) = -4.026 BETA (1) = -3.843 MACH = 1.3927 0 = 599.59	SECTION (1)BODY FLAP UPPER DEPENDENT VARIABLE CP	X/LB 1.0180 1.0460	PH1 .0003;843125 +0.0003+063+96	ALPHA (1) = -3.938 BETA (2) = .202 MACH = 1.3927 0 = 599.59	SECTION (1) BODY FLAP UPPER DEPENDENT VARIABLE CP	XXI,B 1.01B0 1.0460	PH1 .00032703534 +0.00033703534	ALPHA (1) = -4.001 BETA (3) = 4.282 MACH = 1.3927 0 = 599.59	SECTION (1)BODY FLAP UPPER DEPENDENT VARIABLE CP	X/LB 1.0180 1.0450	PHI .00033143269 40.00033403497	ALPHA (2) = .015 BETA (1) = -3.863 MACH = 1.3931 0 = 599.59	SECTION (1) BODY FLAP UPPER DEPENDENT VARIABLE CP	X/kB 1.0180 1.0460	PHI33243315 .00034573544

DATE 13 FEB 76 TABULATED P	PRESSURE DATA - DAIYB (AMES 11-073-1	1-023-1)		PAGE	
	AMES 11-073:0A148) -140A/B/C/R ORB BODY FLAP UP	R ORB BODY FLAP UP	(XE8F57)		<u>.</u>
ALPHA (2) * .021 BETA (2) =	.195 MACH = 1.3931	0 • 599.59 P	* 441.36	RN/L .	2,9062
SECTION (1) BODY FLAP UPPER	DEPENDENT VARIABLE CP				
X/LB 1.0180 1.0460			4		
PH1 .00033443259 .00034253569					
ALPHA (. 2) = .016 BETA (.3) =	4.262 MACH = 1.3931	g 599.39 P	* 441.35	FBN/L =	2 906.5
SECTION (1)BOOY FLAP UPPER	DEPENDENT VARIABLE CP				<u> </u>
X/LB 1.0180 1.0460					
PH1 .00033753332 +0.00034763628					- <u>-</u> -
ALPHA (3) = 3.900 BETA (1) =	-3.867 MACH = 1.3926	0 - 599.48 P	# ##1.59	FBV/L .	2 8063
SECTION (1)BODY FLAP UPPER	DEPENDENT VARIABLE CP				₽
X/LB 1.0180 !.0%60					<u>;</u>
PH1 . C00 3+31 3+81 +0.000 3512 3603					<u>.</u>
ALPHA (3) = 4,005 BETA (2) =	.197 MACH = 1.3926	94-665 + 0	# ## .59	- 1/18	2.9063
SECTION (1)BOOY FLAP UPPER	DEPENDENT VARIABLE CP				
X/LB 1.0180 1.9460					
PH1 .00034563477 40.00034793609					- ,
ALPHA (3) = 3.907 BETA (3) =	4.252 MACH = 1.3926	94.595 * C	66.144 =	EN/L .	2.9063
SECTION 1 1) BODY FLAP UPPER	DEPENDENT VARIABLE CP			,	
X/LB 1.0180 1.0460					
9919 - 3384 - 3414 (- 000 - 3484 - 3668 (

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DATE 13 FEB 76 TABULATED F	TABULATED PAESSURE DATA + DAIHB (AMES 11-073-1	1-073-1		PAGE 5657
	AMES 11-073(0A148) -140A/8/C/R ORB BODY FLAP UP	R ORB BODY FLAP UP	(XE8F57)	
ALPHA (4) # 7.945 BETA (1) #	-3.86E MACH # 1.3931	0 = 599.59	P = 441.36	RN/L = 2.8969
SECTION (1'BODY FLAP UPPER	DEPENDENT VARIABLE CP			
X/LB 1.0180 1.0450				
PH1 .00035683591 +0.00036983783				
ALPHA (4) = 7.917 BETA (2) =	.187 MACH = 1.3931	0 = 599.59	P 441.36	RN/L = 2.8969
SECTION (1) BOOY FLAP UPPER	DEPENDENT VARIABLE CP			
X/LB 1.0180 1.0460				
PH1 .00035#23561 +0.00036453715				
ALPHA (4) = 7.849 BETA (3) =	4.25; MACH = 1.3931	0 • 599.59	р - 441.36	FN/L = 2.8969
SECTION (1:BODY FLAP UPPER	DEPENDENT VARIABLE CP			
X/L9 1.0:80 1.0450				
PH1 .00035653738 H0.00036863802				
ALPHA (5) = 11.907 BETA (1) =	-3.847 MACH = 1.3946	D • 600.23	P ++0.88	RN/L = 2,9052
SECTION (1) BOOY FLAP UPPER	DEPENDENT VARIABLE CP			•
X/L9 1.0180 1.0456				
PH1 .00035373409 40.00037813916				
ALPHA (5) = 11.890 8ETA (2) =	.186 MACH = 1.3946	0 • 600.23	P8:044 = d	RN7L = 2.9052
SECTION (1:800Y FLAP UPPER	DEPENDENT VARIABLE CP			
X/LB 1.0180 1.0460				
PH1 .00025633692 40.00038103845				

-.3313 40.000

CATE 13 FEB 76 TABULATED	ш.	RESSURE I	DATA - (841 4 0	PRESSURE DATA - DAINB (AMES 11-073-1)	1-073-1	_					PAGE 5658	. : 93
		AMES 11-1	17310A14	18) -1	AMES 11-07310A148) -140A/B/C/R ORB BODY FLAP UP	7 ORB BOI	א זיין אַ	AP UP		(XE8F57)	(7)	-	•
ALPHA (S) = 11.77 BETA (3	31 =	4.265	4.265 MACH * 1.3946		.3946	0	φ.	600.23	۵.	■ 440.88	38.7	κί •	2.90%2
SECTION 1 1) BODY FLAP LAPER		DEPE	DEPENDENT VARIABLE CP	AR I ABL	E CP				-	•			
XXLB 1.0180 1.0460													-
1Hd 1000 - 3755 - 000 140,000 - 3755 - 000,004													
ALPHA (5) = 15.871 BETA (1		-3.852	MACH	,	* 1.396 ⁴	ø	ι. Ω	598.94	<u> </u>	438.77	1	či *	2.9065
SECTION (1)800Y TLAP UPPER		DEPE	DEPENDENT VARIABLE CP	AR I ABL	E CP								
XXL8 1.0180 1.0460													
FH1 .00035723377 40.0003802													
ALPHA 1 S) = 15.383 BETA 1 2	# @	. 187	.187 MACH # 1.3964		.3964	o	KD H	598.9+	٩	- 438.77	RAYL	من •	2.90 65
SECTION : 1330DY FLAP UPPER		DE9E1	DEPENDENT VARIABLE CP	IR I ABL	in G								
X/LB 1.0180 1.0450													
PH1 .COD36973505 .HG.OOD40124204													
ALPHA (8) = 15.915 BETA (3)	3) *	4.292	MACH	,	₹ 1.3964	9	K.	598.34	<u> </u>	1 438.77	RR/L	ณ์ •	5. 9065
SECTION : 1) BODY FLAP UPPER		13d30	DEPENDENT VARIABLE CP	IR I ABL	יה ה								
X/LB 1.0180 1.0460													
PH; .000 - 3680 - 3492 40.5000030557													

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- CATE 13 FES TS TABULATED PRESSURE DATA - DAINB (AMES 11-073+1)		7	n.	PARE 5659
AVES 11-073(0A148) -140A/B/C/R ORB BODY FLAP UP		(XEBF58)		35 AUG 75 N
PEFERENCE DATA	, Q.	PARAMETRIC DATA	DATA	
#39EF = 2390.0000 \$0.FT, XMBP = 1076.5800 IN. XO 1985 = 4TH.8000 IN. YMBP = 0000 IN. YO 894F = 550.0467 IN. ZMBP = 375.0000 IN. ZO \$0ALE = 0360	RUDDER = BDFLAP = R-ELVN =	10.000 15.000 14.000	SPOSRK = 1-ELLN = MACH	ពល់ ពល់ ពល់ ពល់ ពល់ ពល់ ពល់ ពល់ ពល់ ពល់
ALEMA (1) = -4.015 BETA (1) = -3.834 MACH = 1.2474 Q = 600.07	C.	550.87	-1 &	3.0101
SECTION (1) BODY FLAP UMPER				
(1) (1) (2) (1) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2				
- 2503538 -1.00035803538 -1.00037113857	·			
ALPHA (1) = -4.012 BETA (2) = .202 MACH = 1.2474 0 = 600.07	•	550.87	J'NA	# W.0101
SECTION () BOOM FLAP UPPER				
85.0.1 05.0.1 位元/x				
#HE 13532 - 3532 - 3539 - 3536.1 - 3536.1 - 3536.1 - 3536.1 - 3536.1 - 3556.1 - 3566				
ALP4A : 13 = -4.007 BETA (3) = 4.280 MACH = 1.2474 0 = 600.07	.	550.87	.ı Æ	3,0101
SECTION I DECOY FLAP UPPER DEPENDENT VARIABLE CP				
X/LB 1.0180 1.0460				
PH; 2007 - 3656 - 3692 -0000-0+				
ALPHA (2) = .035 BETA (1) = -3.858 MACH = 1.2470 Q = 599.89	Q.	551.11	¥	3.0093
SECTION : : :BODY FLAP UPPER DEPENDENT VARIABLE CP				
X/L8 1.0100 1.0450				-
PH1 .00035203639 40.00036293377				

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PACE 5850	(XEBF58)	599.39 P * \$50.11 ANA * 6.0053				599.89 P # 551.11 PN/L * 3.7083				599.89 P × 551.39 9N/L × 3.0.20				599.84 P = 551.34 RN/L = 3.0:20				599.84 P = 551.34 PN/L = 3.0120			
TABULATED PARSSURE DATA + OALM8 (AMES 11-073-1)	AMES 11-07310A148) -140A/B/C/H ORB BODY FLAP UP	.189 MACH = 1,2470 Q = 5	DEPENDENT VARIABLE CP	•		4.261 MACH = 1.2470 G = 5	DEPENDENT VARIABLE CP			+3,861 MACH = 1,2467 Q = 5	DEPENDENT VARIABLE CP			.192 MACH = 1.2467 0 = 5	DEPENDENT VARIABLE CP			4.251 MACH = 1.2467 0 = 5	DEPENDENT VARIABLE CP		
PATEL 13 TES TO THE PATE PATE PATE PATE PATE PATE PATE PAT		# (8) 413E 040 # (8) 4-6-34	SECTION & 1 BODY FLAP UPPER	1.0450 1.0450 E. X	550 - +383+ -3597 -200 - 383+ -3597 -2000 - 3774 - 3918	ğ. ± (¿;	SECTION OF THAP UPPER	09+0*E 08:011	1000 - 3725 - 3746 1000 - 3725 - 3746	ALP-1 3 = 3.928 SETA (1) =	SECTION : "BODY FLAP UPPER	0010 11 0010 1 011X	1897 1885 200. 4604 1885 200.04	ALPUR : 33 = 3.929 BETA (2) =	SECTION : 17800Y FLAP UPPER	X.18 1.0180 1.0460	#10#1- 1#621- 00010# #10#1- 1#621- 00010#	ALP-A ' 3) * 3,933 BETA (3) *	SECTION CONSISSY FLAP UPPER	X, 8 1.0460	H4:

DATE 13 FEB 70 TABULATED PRESSURE DATA - DAINB (ANES 11-073-1)	•	PAGE 5661
AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP UP	(XEBF58)	
ALPMA (4) = 7.566 BETA (1) = -3.855 MACH = 1.2463 Q = 599.67 P = 55	551.57 RN/L	3.9:05
SECTION (1) BODY FLAP UPPER DEPENDENT, VARIABLE CP		
X/L9 1.0180 1.0460		
PH1 .00040754127 .0004319		
ALPHA (4) = 7.970 BETA (2) = .187 MACH = 1.2463 Q = 599.67 P = 55	551.57 RN/L	3.0105
SECTION (1)BODY FLAP UPPER DEPENDENT VARIABLE CP		
X/LB 1.0180 1.0460		
PHI		
ALPHA (4) = 7.894 BETA (3) = 4.250 MACH = 1.2463 0 = 599.67 P = 55	551.57 RN/L	3.0105
SECTION (1)BODY FLAP UPPER DEPENDENT VARIABLE CP		
X/LB 1.0180 1.0460		
PH1		
ALPHA (5) = 11.923 BETA (1) = -3.838 MACH = 1.2454 0 = 599.32 P = 55	552.04 RN/L	3.0114
SECTION (1)BODY FLAP UPPER DEPENDENT VARIABLE CP		
X/LB i.0180 1.0460		
PHI .00042824365 .00045824566		
ALPHA (5) = 11.931 BETA (2) = .197 MACH = 1.2454 0 = 599.32 P = 55	552.04 RN/L	- 3.0114
SECTION (1)BODY FLAP UPPER DEPENDENT VARIABLE CP		
X/LB i.0180 1.0460		
1H9 - 1000 - 7024: 186 - 10000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000		

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3.0114 PAGE 5662 RN/L (XE8-28) AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP UP TABULATED PRESSURE DATA - DAIMB (AMES 11-073-1) * 1.6454 DEPENDENT VARIABLE CP MACH 4.259 BETA (3) = SECTION : 1180DY FLAP UPPER -.4207 1.0180 1.0450 ALPHA (5) = 11.925 -.4036 -.4228 DATE 13 FEB 76 PH1 .000 40.000 X/L9

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TABULATED PRESSURE DATA - OAI48 (AMES 11-073-1)
13 FEB 76

DATE 13 FEB	76 TABULATED	O.		-	11-073-1	_	!						15
		AMES 11.	AMES 11-073(0A148)	48) -140A/B/C/R ORB BODY FLAP UP	/R ORB B(<u>بر</u> 20	dh dy			(XEBF59)	_	05 AUG 75	_
	REFERENCE DATA								PARA	PARAMETRIC DATA	DATA		
SPEF = 256 LAEF = 4 BREF = 9 SCALE =	2590.0000 50.FT. XMAP = 474.6036 IN. YMAP = 935.0550 IN. ZMAP = .0300	1076.6800 .0000 375.0000	N. X N. X 200					RUDDER ** BOFLAP ** R-ELVN **	291	10.000 16.300 -4.000	SPDBRK = L-ELVN = MACH =	55.000 4.500 1.100	888
ALPHA (1) :	= -4.026 BETA (1) =	-3.831	MACH	1.1006	0	*	600.08	a	7	707.67	RN/L	* 3.1	3.1805
SECTION (SECTION (1)BODY FLAP UPPER	06.PE	NDENT V	DEPENDENT VARIABLE CP									
X/LB	1.0180 1.0460												
PH: . 600 .40.000	40824117 42574435												
ALPHA (1) :	= -3.894 BETA (2)=	= .203	MACH	- 1.1006	o		600.08	<u> </u>	7	707.67	RN/L	3.1805	805
SECTION (1)BODY FLAP UPPER	DEPE	DEPENDENT VARIABLE	RIABLE CP									
X/LB	1.0:90 1.0460												
PH1 .000.0+	39904042 4068471						0						
ALPHA (1) =	= -4.013 BETA (3) =	4.281	MACH	3001.1 ≈	O	9	600.00	۵	*	797.67	RN/L	3.1805	805
SECTION ()	SECTION (1)BODY FLAP UPPER	3430	NDENT VA	DEPENDENT VARIABLE CP									
X/LB	1.6180 1.0460												
. 300 . 000 -	40164090 41804502												
ALPHA (2) =	051 BETA (1) =	-3.852	MACH	1.1008	0	•	600.03	÷	7	707.43	RN/L	3.1.	179
SECTION ()	SECTION (1)BODY FLAP UPPER	3430	NDENT VA	DEPENDENT VARIABLE CP				. 7 *					
x/LB 1	1.0180 1.0460							,					
PH1 .000	41894298 43434557							una marka			÷		

FEB 76 TABULATED P	PRESSURE DATA - DAIWB (AMES 11-073-1	11-073-	1)		Control	a.	PAGE 5664 1
	073(0A148) -	Z/R ORB	BODY FLAP UP			- :	
.053 BETA (2) =	.191 MACH = 1.1008	a	= 600.03	۵	= 707.43	RN	= 3.1794
SECTION (1) BODY FLAP UPPER	DEPENDENT VARIABLE CP					•	
1.0460							
4016 4371			• •				
.049 BETA (3) =	4.255 MACH = 1.1008	G	= 600.03	۵	= 707.43	RN/L	= 3.1794
SECTION (1)BODY FLAP UPPER	DEPENDENT VARIABLE CP		•				
1.0460							
£464'- 9404'-							
3.965 BETA (1) =	-3.853 MACH = 1.1009	a	= 600.17	۵	₩. 707 =	RN/L	- 3.1827
:) BODY FLAP UPPER	DEPENDENT VARIABLE CP		•				
1.0180 1.0450						4. * .	
42834298 43694513							
3.964 BETA (2) =	.193 MACH * 1.1009	o	- 600.17	Q.	- 707.44	RN/L	= 3.1827
SECTION (1)BODY FLAP UPPER	DEPENDENT VARIABLE CP		****				· .
1.0460			. •				
42524415 4324552							
3.966 BETA (3) =	4.249 MACH = 1.1009	0	- 600.17	۵	# 707.4h	RN/L	= 3.1827
1)800Y FLAP UPPER	DEPENDENT VARIABLE CP						
1.0450			• •				
4320 4320							• 12

A CONTRACT C

PAGE 5665	(xE8F59)	= 708.35 RN/L = 3.1817				= 708.35 RN/L = 3.1817			overhander valer (s.	= 708.35 RN/L = 3.1817				= 710.00 FN/L = 3.1878				= 710.00 RN/L = 3.1B78			
		۵	ē			Q.				۵.				۵.				Q			
	SODY FLAP UP	= 599.26				± 599.26				= 599.26				= 598.33				598.33			
11-073-1	'R ORB E	a				o				o				0				0			
TABULATED PRESSURE DATA - OAI48 (AMES 11-073-1)	AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP UP	-3.848 MACH = 1.0993	DEPENDENT VARIABLE CP			.189 MACH = 1.0993	DEPENDENT VARIABLE CP			4.247 MACH = 1.0993	DEPENDENT VARIABLE CP			-3.832 MACH = 1.0972	DEPENDENT VARIABLE CP		•	.197 MACH = 1.0972	DEPENDENT VARIABLE CP		
DATE 13 FEB 76 TABULATED P		ALPHA (t) = 7.908 RETA (1) =	SECTION (11800Y FLAP UPPER	X/LB 1.0180 1.0450	PH1 .03045444503 40.03045854775	ALPHA (4) = 7.912 BETA (2) =	SECTION (1)BODY FLAP UPPER	X/LS 1.0180 1.0460	1Hd 0.000 - 1Hd 0.000 - 1Hd	ALPHA (4) = 7.911 BETA (3) =	SECTION : 1)BODY FLAP UPPER	X/LB 1.0180 1.0463	PH1 .63045154699 .63.00045114852	ALPHA (5) = 11.969 BETA (1) =	SECTION (1)800Y FLAP UPPER	X/28 1.0180 1.0450	PH! .00348564771 42.0005222	ALP44 (5) * 11.872 EETA (2) *	SECTION 1380DY FLAP UPPER	X/LB 1.3190 1.3460	+£6+'- 8≥5+'- 555'6+ £4+4'- 4≥4+'- 556' [Hd

 $\tilde{i}_{l_s}^5$

(XEBF59) 710.00 = 598.33 AMES 11-073(0A148) -140A/B/C/R CRB BODY R TABULATED PRESSURE DATA - DAIHB (AMES 11-073-1) 4.258 MACH = 1.0972 DEPENDENT VARIABLE CP BETA (3) = SECTION (1) BODY FLAP UPPER ALPHA (5) = 11.865 DATE 13 FEB 75

PHI .000 40.000

1.0180 1.0460

X/LB

-.4564 -.4595 -.4713 -.5012

PAGE 5566

R K

= 3.1878

APES 11-073-1 1	
TABULATED PRESSURE DATA - DAIWB (
35 E3 5 E8 76	

(XEBF60) (05 AUG 75) AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP UP

PARAMETRIC DATA	RUDDER = 10.000 SPDBRK = 55.000 BDFLAP = 16.300 L-ELVN = 4.300 R-ELVN = -4.000 MACH = .900	P = 1060.7 RN/L = 3.5631				P = 1060.7 RN/L = 3.5631				P = 1060.7 RN/L = 3.5631				P = 1060.5 RN/L = 3.5631
		= 598.77				. 598.77				* 598.77				- 598.75
	1076.6800 IN. XO .0000 IN. YO 375.0000 IN. ZO	-3.841 NACH = .89803 Q	DEPENDENT VARIABLE CP			.202 MACH = .89803 0	DEPENDENT VARIABLE CP			4.285 MACH = .89803 0	DEPENDENT YARIABLE CP			-3.856 MACH = .89813 Q
PEFEPENCE DATA	SPEF = 2F90.0000 SO.FT. XMRP = 1070 LPEF = 474.5007 IN. YMRP = 50E0.0F90 IN. ZMRP = 376 SCALE = 026.0F90 IN. ZMRP = 376	ALPHA (1) = -4.026 BETA (1) =	SECTION (1:BODY FLAP UPPER	X'LB 1.0180 1.0465	9445'- 9215'- 000'04 8362'- 1902'- 000'04	4LPHA (1) = -4.026 BETA (2) =	SECTION (1)BCDY FLAP UPPER	X/LB 1.0180 1.5460	PHI .00031233286 .00.01030453403	ALPHA (1) = -3.984 BETA (3) =	SECTION (1)BODY FLAP UPPER	X/L9 1.0180 1.0460	PHI .50030793163 43.00035943408	ALPHA (2) = .055 8ETA (1) = .

1.0180 1.0460

SECTION (1)BODY FLAF UPPER

-3.855 MACH = .89813 DEPENDENT VARIABLE CP

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The same of the sa

DATE 13 FEB 76 TABULATED PRESSURE DATA - OAL48 (AMES 11-073-1.)				PAGE 5668
AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP UP	<u>s</u>	(XEBF60)		
ALPHA (2) = 056 BETA (2) = .186 MACH = .89813 0 = 598.75	1.75 P	= 1060.5	RN/L	3.5631
SECTION (1) BODY FLAP UPPER DEPENDENT VARIABLE CP				
3/LE 1.0:80 1.0460				
PH1 .05030623010 +0.02030743247				
ALPHA (2) = .048 BETA (3) = 4.260 MACH = .89813 0 = 598.75	75 P	1060.5	RN/L	= 3.5631
SECTION (1:BODY FLAP UFPER DEPENDENT VARIABLE CP				
X;LB 1.0:80 1.0460				
FH: .00029353056 -0003:573392				
ALPHA (3) = 3.975 BETA (1) = -3.861 MACH = .89723 Q = 597.99	g	* 1061.2	RN/L	- 3.5607
SECTION (1) BODY FLAP UPPER DEPENDENT VARIABLE CP				
x/LB 1.0190 1.0460				
PH1 . 530 2939 2957 40. 620 3124 3311				
ALPHA (3) = 4.019 BETA (2) = .193 MACH = .89723 0 = 597.99	96. P	- 1061.2	RA/L	3.5607
SECTION (1:800Y FLAP UPPER DEPENDENT VARIABLE CP				
X/L9 1.0180 1.0450				
CH1 .03029622902 .00029263231				
ALPHA (3) = 3.944 BETA (3) = 4.252 MACH = .89723 0 = 597.99	96. a	= 1051.2	FRV/L	3.5607
SECTION (1) BCDY FLAP UPPER DEPENDENT VARIABLE CP				
x/::3 1.0180 1.0460				

2

-.2943

0000 THG

-.2899

7.884. PH1 .000 .000

(); ;=}

	- 6	RN/L = 3.56+5	- -		.=
	(XEBF60)	■ 1059.0			·
	·	۵			
11-073-1	11-07310A1481 -140A/B/C/R ORB BODY FLAP UP	46.599.94			
TABULATED PRESSURE DATA - DAINB (AMES 11-073-1)	310A148) -140A/B/C	MACH = .89963	DEPENDENT VARIABLE CP		
PRESSURE DA	AMES 11-07	4.258	DEPEN		
TABULATED		BETA (3) =	ррЕя	Q	സഹ
DATE 13 FEB 76		A,PHA (5) = 11.915	SECTION (1)BODY FLAP UPPER	X/LB 1.0183 1.0455	PH1 .00031863345 .43.00032483365

PAGE 5671	. 87 34 		55.00D 4.00D .60D	£.04		**		F.18#1				F. 4.0411				£.9£.		
PA() (05 AUG 75	DATA	SPDBRK ** L-ELVN ** MACH **	RN/L			V	FN/L				1/12				FN/L =		
	(XE9F61)	PARAMETRIC	10.000 16.300 -4.000	* 2386.5				2386.5				- 2386.5				= 2386.5	1	
		_	RUDDER = BDFLAP = R-ELVN =	۵				Ω.				a .				<u>.</u>		
	OY FLAP UP			594.21				= 594.21				* 594.21				594.21		
11-073-1	C/R 0RB BOI			o				O				0				o		
RESSURE DATA - DAI48 (AMES 11-073-1)	AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP UP		X0 X0 70 70	MACH ≈ .59638	DEPENDENT VARIABLE CP			MACH ≈ .59638	DEPENDENT VARIABLE CP			MACH * .59538	DEPENDENT VARIABLE CP			MACH . 59638	DEPENDENT VARIABLE CP	
PRESSURE DA	AMES 11-07		1076.6800 IN. .0000 IN. 375.0000 IN.	-7.854	DEPEND			-3.832	DEPEND			. 201	DEPEND			4.282	DEPENDE	
TABULATÉD P			XMRP = YMSP = ZMRP =	A (1) *				A (2) #				A (3) *				* (4:) *		
		REFERENCE DATA	SO.FT. IN. IN.	-4.014 BETA	SECTION (1)BODY FLAP UPPER	1.0180 1.5450	25222451 28743224	-3.998 BETA	THOODY FLAP UPPER	1.0180 1.0460	25212552 29643233	-3.980 BETA	13800Y FLAP UPPER	1.0180 1.0450	25412498 28223143	-3.989 BETA	128GDY FLAP UPPER	1.0180 1.0450
CATE 13 FEB 76			#PEF = 2690.0000 PEF = 474.8000 BREF = 936.0680 SCALE = .0300	ALPHA (1) =	SECTION (1)E	X728 1.0	## ### ###############################	# (1) #Halk	SECTION (1)B	X/LB 1.0	1HG 600.0+ 5 600.0+	ALPHA (1) =	SECTION LINE	מיז פיזיג	9H1 .000. 40.000.	ALPHA (1) =	SECTION CITE	X.LB 1.0

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CATE 13 FEB T6 TABULATED F	PRESSURE DATA - OAI48 (AMES 11-073-1)	1-073-1			100	¥ 5672
	AKES 11-07310A148) -140A/B/C/R ORB BODY FLAP UP	R ORB BODY FLAP UP		(NESF61)		5 × 4.
ALPHA : 1) = -4.005 BETA (5) =	8.352 MACH * .59638	0 = 594.21	·	2386.5	1/N2	11.9411
SECTION (1780DY FLAP UPPER	DEPENDENT VARIABLE CP				-11-4 (2018)	- <u>L</u>
X/LB 1.0185 1.0463						
HH; CCC - 28437 - 2510 CCC - 281C+ CCCC+	NAME OF THE PARTY					<u>.</u> . <u>.</u>
ALPHA (2) = .015 BETA (1) =	-7.895 MACH = .59624	D = 593.85	۵.	2386.1	1	4.9452
SECTION (1)BCDY FLAP UPPER	DEPENDENT VARIABLE CP					
1.0130 1.0450						
He2512257931923192						
1,04A (2) = .022 BETA (2) =	-3.851 MACH * .59624	0 = 593.85	.	2386.1	<u>ج</u> اب	4,8432
SECTION (10BODY FLAP UPPER	DEPENDENT VARIABLE CP					
x/ca 1.0180 1.0460						
94325412484 00025412484 00002808						
ALPHA (2) = .105 BETA (3) =	.189 MACH * .59624	0 = 593.85	• a.	2386.1	FN/L :	7" Br\$2
SECTION (1) BODY FLAP UPPER	DEPENDENT VARIABLE CP					
3 19 1.0180 1.0460						
74; CCC - 2472 - 2483 -CCC - 2741 - 3698						
# (#) #ETA (#) #	4.264 MACH = .59624	0 = 593.85	•	2386.1	RN/L :	£. 9452
SECTION (1) BODY FLAP UPPER	DEPENDENT VARIABLE CP					
X/LB 1.0180 1.0950						
1943 1003 - 12478 - 12419 1000 - 12894 - 13786	÷					
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CATE 33 FEB 75 TABULATED	ED PRESSURE DATA - OAIH8 (AMES 11-073-1)	1-073-1)			PAG	PAGE 5673
	AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP UP	R ORB BODY FLAP UP		KXEBF61)	:	
A_PHA (2) = .09% BETA (5)	= 8.317 MACH = .59624	0 * 593.85	•	2286.1	# J/Nd	4.8452
SECTION : 1:0007 FLAP UPPER	DEPENDENT VARIABLE CP					
X/18 1.0460 1.0460						
145 200 2489 - 2548 79.000 3197						_
ALPHA (3) = 4,024 BETA (1)	= -7.901 MACH = .59706	g = 595.26	•	· 2385.4	RN/L .	4.8521
SECTION (1) BODY FLAP UPPER	DEPENDENT VARIABLE CP					
X:19 1.0190 1.0450						
7812 - 1881 - 880 7812 - 1881 - 880 1881 - 880 1891 - 880 1801 - 8						
2,294 (3) = 4,025 BETA (2)	= -3.849 MACH = .59705	0 = 595.25	۵.	, 2385.4	FRV/L .	£.8521
SECTION : 1180DY FLAP UPPER	DEPENDENT VARIABLE CP					
09+0:1 05:0:1 E7/X						
1492 6185 cac.ap						
A_PHA (3) = 4,034 BETA (3)	= .195 MACH = .39705	g = 595.26	e.	- 2385.4	FINT .	4.8581
SECTION : 1:800Y FLAP UPPER	DEPENDENT VARIABLE CP					
X/18 1.0190 1.0460						
12562562625255255255255255255.		e T				
1 PHA (3) = 4,044 BETA (4)	= 4.254 MACH = .59706	0 = 595.26	۵.	- 2385.4	HW.L *	4.8521
SECTION : 13803Y FLAP UPPER	DEPENDENT VARIABLE CP					
STOREST CONTROL ETVX						
25. 25.5825.5825.0225.5825.0225.03						

CATE 13 FEB 78 TABULATED PR	PRESSURE DATA - OAIWB (AMES 11-073-1 AMES 11-073/031WB: -INGA/R/C/P ORB RE	1-073-1	; ; ; ;		y day.		PASC 5574
***	AMES 11-073(0A148) -140A/B/C/R ORS 80DY FLAP UP	R CRB BR	JOY FLAP UP		(XEBF61)		
(1) (1	8 299 MACH = .59705	•	≈ 595,26	a.	≠ 2385.4	Š	₹ .4, 952
REPRESENT TO BOOK TO A PRESENT OF SOUTH	DEPENDENT VARIABLE CP						
2970'1 0810':							
## ### ############################							
= (1) = 151 B: [58 BET4 (1) =	-7,897 MACH ≈ .59720	O	₹ 595.49	a.	= 2385.3	ž	= 4.85¥
CTION (1) BODY FLAP UPPER	DEPENDENT VARIABLE CP						
3.0:380 1.0460							
94) - 100 2875 2959 - 0.000 303; 3123							
ALDHA (4) = 8,037 BETA (2) # 1	-3.847 MACH ≈ .59720	Œ	= 595.49	O.	* 2385.3	<u>ę</u>	(h) (h) (h) (r) (r)
CTION (1) BCDY FLAP UPPER	DEPENDENT VARIABLE CP						
1.0380 1.0450 EL							
020 - 2534 - 2595 -000 - 2736 - 3014							
ALPHA (4) = 8.042 BETA (3) =	.196 MACH = .59720	o	* 595.49	۵	= 2385.3	ġ.	1000 m
SECTION : 1.800Y FLAP UPPER	DEPENDENT VARIABLE CP						
9 1.0183 1.0455							
7 5875 - 72457 - 300 - 300 - 2459 - 3502 - 25035 - 25035 - 35035							
# (t) #136 096"L = (t) Ynd	4.251 MACH = .59720	o	≥ 595.49	<u>a</u>	= 2385.3	ž	# 4.8534
CTION (1180DY FLAP UPPER	DEPENDENT VARIABLE CP						
9 1.0180 1.04 50							
2452'- 1952'- CCC'- 1452'- 1952'- CCC'- 145							

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5/95		4. B534				4.8439				4.8439				4.8439				4.8439			
PAGE						*				Ħ			•					H			
		RN/L				Z Z				RN/L				RN/L				RN/L			
	(XE8F61)	2385.3				2386.0				2386.0				2386.0				2386.0	•		
									-	. #				S ,			**				
		۵				۵				۵				۵				۵			
	LAP UP	595.49				594.44				594.44				554 . 44				594,44			
1.	BODY FI	#				p.															
1-073-	R ORB I	o				ø				a				, , ,				o			
PRESSURE DATA - DATY8 (AMES 11-073-1)	AMES 11-07310A148) -140A/5/C/R ORB BODY FLAP UP	5 MACH ≥ .59720	DEPENDENT VARIABLE CP			3 MACH = .59660	DEPENDENT VARIABLE CP			7 MACH = .59660	DEPENDENT VAR!ABLE CP			.197 MACH = .59660	DEPENDENT VARIABLE CP			4.259 MACH = .59660	DEPENDENT VARIABLE CP	.	
PRES3UR	AMES 1	8.305	ם			-7.853	30			-3.827	ם			. 19	9			4.25	G		•
CATE 13 FEB 75 TABULATED P		ALPHA (4) = 7.955 BETA (5) =	SECTION: 1:300Y FLAP UPPER	X/LB 1.0180 1.0460	PHI .00025532682 .000.0097433215	ALPHA (5) = 11.943 BETA (1) =	SECTION (1) BODY FLAP UPPER	X/LB 1.0160 1.0460	#775 #755 00: #775 #565 000:0#	ALPHA (5) = 11.962 BETA (2) =	SECTION (1350DY FLAP UPPER	X/LB 1.0180 :.0460	PHI .00025722610 46.00027132919	ALPHA (5) = 11.957 BETA (3) =	SECTION (1:800Y FLAP UPPER)	XVLB 1.0:83 1.0463	Hd: 1000 - 2479 - 2581 1000 - 2555 - 2798	ALPHA (\$) = 11,963 BETA (4) =	SECTION (1) SCDY FLAP UPPER	X/LB :.0190 1.0460	PHI 200 - 2551 - 2542 400.00 - 2551 - 2571

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DATE 13 FEB 78 TABULATED PRESSURE DATA - OAI48 (AMES 11-073-1)				PAGE 5677
AMES 11-073(DA148) -140A/B/C/R ORB BODY FLAP UP		(XEBF62)	-	05 AUG 75 1
REFERENCE DATA	a.	PARAMETRIC DATA	DATA	
SAEF = 49.0000 50.FT, XMRP = 1076.6900 IN, XO LEEF = 474.8000 IN, YMRP = .0000 IN, YO BPEF = 9.50.0590 IN, ZMRP = 375.0000 IN, ZO SCALE = 0.500	RUDDER = BOFLAP = R-ELVN =	5.000 16.300 -4.000	SPDBRK = L-ELVN = MACH =	55.000 -4.000 1.400
ALPHA (1) 4 -4.059 BETA (1) = -3.849 MACH = 1.3925 Q = 599.99		442.06	RN/L	2.9210
SECTION (1) BOOY FLAP UPPER DEPENDENT VARIABLE CP				
X/LB 1.0180 1.0462				
PHI .COC33443226 40.0C036283732				
ALPHA (1) = -3.922 BETA (2) = .195 MACH = 1.3925 0 = 599.99	•	. 442.06	FN/L	= 2.9210
SECTION (1)800Y FLAP UPPER DEPENDENT VARIABLE CP				
X/LB 1.0180 1.0460				
PHI .00033013123 40.00035953704				
ALPHA (1) = -3.933 BETA (3) = 4.280 MACH = 1.3925 0 = 595.99	•	442.06	RN/L	= 2.9210
SECTION (1) BODY FLAP UPPER DEPENDENT VARIABLE CP	٠			
X/LB 1.0180 1.0450				
PHI .00033503255 40.00035013693				
ALPHA (2) * .024 BETA (1) * -3.867 MACH * 1.3922 Q * 599.78	•	442.05	RN/L	= 2.9172
SECTION (1) BODY FLAP UPPER DEPENDENT VARIABLE CP				
X/LB 1.0180 1.0460				
PHI .00033383260 .00035583769				

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DATE 13 FEB 76 TABULATED F	PRESSURE DATA - DAIYB (AMES 11-073-1	11-073-1 1					0465 5670
							JOE 2018
	AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP UP	/R ORB BODY FL.	AP UP		(XE8F62)		
ALPHA (2) 029 BETA (2) .	.:85 MACH * 1.3922	10 H	599.78	٠.	■ 442.06	RN/L	= 2.9172
SECTION (1) BODY FLAP UPPER	DEPENDENT VARIABLE CP						
X/LB 1.0180 1.0460							
PHI .000 - 3392 - 3287 .000 - 3355 - 000 94							
). = (3	4 257 WACL # 1 2023		Ş			;	
UPPER	NOFNT VARIAR	•	293. /B).	- 442.36	1 1	2.9172
X/LB 1.0180 1.0460							
PHi .00034773+13 .00036163742			٠				
ALPHA (3) = 3.958 BETA (1) =	-3.867 MACH = 1.3919	0 * 59	599.88	٥.	= 442.29	RN/L	- 2.9189
SECTION (1)BODY FLAP UPPER	DEPENDENT VARIABLE CP						
X/LB 1.0180 1.0450							
PHI .SC:33363265 +0.00036133705			· · · · · · · · · · · · · · · · · · ·				4 - 41
ALPHA (3) = 3.958 BETA (2) =	.187 MACH = 1.3919	0 - 59	599.88	Ω.	62.544 =	PN/L	- 2.9189
SECTION (1)BODY FILAP UPPER	DEPENDENT VARIABLE CP)	
X/18 1.0180 1.0450							
PHI .00033693324 .5.00035883595							
ALPHA (3) = 3.963 BETA (3) =	4.246 MACH = 1.3919	95 #	599.88		• •••• 29	RN/L	- 2.9189
SECTION (1)BODY FLAP UPPER	DEPENDENT VARIABLE CP		. ,				
X/LB 1.0180 1.0460					,		
PHI .00034693467 40.00035313671				** - * * * - *			
	-						*

DATE 13 FEB 76 TABULATED	TABULATED PRESSURE DATA - OAI48 (AMES 11-073-1)	11-073-1			PAGE 5579
	AMES 11-07310A148) -140A/B/C/R GRB BODY FLAP UP	'R CRB BODY FLAP UP		(XE8F62)	
ALPHA (14) = 7.927 BETA (1) =	-3.856 MACH = 1.3932	00.000	۵.	- 441.59	RN/L = 2.916
SECTION (1)BODY FLAP UPPER	DEPENDENT VARIABLE CP	1 1			
X/LB 1.0180 1.0460					
FH1 .00034443369 40.00036923808				under de F	
ALPHA (4) = 7.932 BETA (2) =	.179 MACH = 1.3932	00 - 000 00	٥	- 441.59	RN/L = 2.918
SECTION (1) BODY FLAP UPPER	DEPENDENT VARIABLE CP				
X/LB 1.0180 1.0460					
PHI .00034283355 40.00035823719		*			
ALPHA (4) = 7.933 BETA (3) =	4.245 MACH = 1.3932	Q = 600.00	۵.	- 441.59	RN/L = 2.918
SECTION (1)BODY FLAP UPPER	DEPENDENT VARIABLE CP				
X/LB 1.0180 1.0460					• •
1Hc 2002 3487 3413 3185 3505 000.0+					
ALPHA (5) = 1' 312 BETA (1) =	-3.854 MACH = 1.3916	0 = 599.87	۵	· 442.53	RN/L = 2.919
SECTION (1) BODY FLAP UPPER	DEPENDENT VARIABLE CP				
X/LB 1.0180 1.0450					
PH1 .00036003626 +0.00035243645					
ALPHA (5) = 11.921 BETA (2) =	.184 MACH = 1.3916	0 = 599.87	۵.	= 442.53	RN/L = 2.919
SECTION (1) BODY FLAP UPPER	DEPENDENT VARIABLE CP				
X/LB 1.0180 1.0460					
PHI .00034303430 40.00735723785				,	

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PAGE 5581

3.0241 = 3.0238 55.000 -4.900 1.250 (05 AUG 75) RNI ž SPDBRK L-ELVN MACH S Z ž PARAMETRIC DATA (XEBF63) 552.28 552.28 5.000 552.28 525.5 RUDDER BOFL AP R-EL VN ٥. AMES 11-073(0A148) -140A/8/C/R ORB BODY FLAP UP 600.11 600.11 - 500.11 599.58 O 0 ■ 1.2⁴⁵⁹ = 1.2459 4.275 MACH = 1.2459 **1.2451** DEPENDENT VARIABLE CP DEPENDENT VARIABLE CP DEPENDENT VARIABLE CP DEPENDENT VARIABLE CP -3.840 MACH -3.864 MACH MACH .196 BETA (1) * BETA 1 (2) = (3) * XMRP YMRP ZMRP BETA BETA REFERENCE DATA SECTION (1)BODY FLAP UPPER SECTION (1)800Y FLAP UPPER SECTION (1) BODY FLAP UPPER SECTION (1)BODY FLAP UPPER 2690.0000 SO.FT. 474.8000 IN. 936.0690 IN. -.3506 -.4098 -.3568 1.0180 1.0460 1.0180 1.0460 -.3559 -.3450 -.3914 -.4023 1.0180 1.0450 1.0190 1.0460 , O. ALFHA (1) = -3.916 ALPHA (1) = -3.923 ALPHA (!) = -4.050 -.3510 -.3980 -.3565 ALPHA (2) * .000 .01 .000 40.000 SCALE = 70. 61.X X/LB A/LB

.000 .03.03

-.3695

PAGE 5682	(XE8F63)	51 RN/L * 3.0238			•	11 RN/L = 3.0238				1 RN/L = 3.0213				1 PN/L = 3.0213				1 FAVL = 3.0213			
	1XE	* 552.51				= 552.51				552.51				- 532.51				= 552.51			
		۵				۵.				۵				•				٩			i
	BODY FLAP UP	599.58				= 599.58				= 599.34				= 599.34				= 599.34			
11-073-	7R ORB I	æ				σ		•		ø				o				0			
PRESSURE DATA - DAIMB (AMES 11-073-1,)	AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP UP	.130 MACH = 1.2451	DEPENDENT VARIABLE CP			4.256 MACH = 1.2451	DEPENDENT VARIABLE CP			-3.864 масн = 1.2448	DEPENDENT VARIABLE CP			.185 MACH = 1.2448	DEPENDENT VARIABLE CP			4.245 MACH = 1.2448	DEPENDENT VARIABLE CP		
TABULATED I		(2) =				(3) =				= = =				(S) #				(3)			
DATE 13 FEB 76 TAE		ALPHA (2) = .050 BETA	SECTION (1)BODY FLAP UPPER	X/LB 1.0180 1.0450	1Hei 1800 - 1857 - 1850 1800 - 1894 - 1876	ALPHA (2) = .045 BETA	SECTION (:) BODY FLAP UPPER	X/LB 1.0180 1.0460	PH1 .00038573970 +0.00038133993	ALPHA (3) = 3.990 BETA	SECTION I 1380DY FLAP UPPER	X/LB 1.0190 1.0460	990 - 3715 - 3584 - 300 - 3715 - 3584 - 3651 - 3651 - 3661	ALPHA (3) = 3.991 BETA	SECTION (1)BODY FLAP UPPER	X/LB 1.0180 1.0460	PH; 	ALP4A (3) = 3.994 BETA	SECTION (1) BODY FLAP UPPER	X/LB 1.0160 1.0460	1Hd 1995 8925 000. 199.00-04

	5683		3.0207				3.0207				3.0207				3.0223				3.0223			
	PAGE		•								. #				,							
	•		FN/L				1/82				FB/L				1/8 2/				RN/L			
	••	(XEBF53)	551.80				551.80				551.80				552.04				552.04			
e grande de la companya de la compa			•				•			.*.	*											
			۵				۵.				۵				۵.				۵.			
	;*	FLAP UP	599,38	•			599.38				599.38				599.56				599,56			
		BODY					H				M								•			
	11-073-	S/R ORB	a				ø		** - *		Ø				o			•	o			
	PRESSURE DATA - DAIHB (AMES 11-073-1)	AMES 11-073(04148) -140A/B/C/R ORB BODY FLAP UP	-3.863 MACH = 1.2457	DEPENDENT VARIABLE CP			.179 MACH = 1.2457	DEPENDENT VARIABLE CP		,	4.244 MACH = 1.2457	DEPENDENT VARIABLE CP			-3.850 MACH = 1.2456	DEPENDENT VARIABLE CP			.185 MACH = 1.2456	DEPENDENT VARIABLE CP		
	TABULATED		7.968 BETA (1) *	1780DY FLAP UPPER	1.0460	3773 4236	973 BETA (2) =	11BODY FLAP UPPER	1.0460	3820 4226	7.897 BETA (3) =	FLAP UPPER	1.0450	4046 4231	369 BETA (1) ≈	11800Y FLAP UPPER	1.0450	3955 4271	977 BETA (2) =	11800Y FLAP UPPER	1.0460	-,3868 -,4329
	DATE 13 FEB 76		ALPHA (4) = 7.9	SECTION (1780DY F	X/LB 1.0180	PHI .0003849 .00.0004127	ALPHA (4) = 7.973	SECTION (1) BODY F	X/LB 1.0180	200 - 3900 200 - 3900 30,000	ALPHA (4) = 7.8	SECTION (1) BODY F	X/LB 1.0180	PH1 .C00+042 .c00+099	ALPHA (5) ≈ 11.969	SECTION (1)BODY F	X/LB 1.0180	PH1 .0003935 +0.000 -:4130	ALPHA (5) = 11.877	SECTION (1) BODY F	X/LB 1.0180	PHI .0003875 .0100.04

PAN L (XEBF163) AMES 11-073(0A148) -140A/B/C R ORB BODY FLAP UP TABULATED PRESSURE DATA - DAIHB (AMES 11-073-1) DEPENDENT VARIABLE CP 4.256 MACH BETA (3) = SECTION 1 11800Y FLAP UPPER ALPHA (5) = 11,890 DATE 13 FEB 76

1.0180 1.0460

X/LB

- . 3995 - . 4485 -,4007

PAGE 5685	(XEBF64) (05 AUG 75)	PARAMETRIC DATA	RUDDER = 5.000 SPDSRX = 55.000 SDFLAP = 16.300 L-ELVN = -4.000 RACH = 1.100	P = 709.54 RN/L = 3.1905				P = 709.54 RN/L = 3,1905				P = 709,54 RN/L = 3.1905				P = 708.37 RN/L = 3.1909			
S 11-073-1)	VC/R ORB BODY FLAP UP		RUE 30F R-E	0 = 598.93			w T	0 = 598.93				0 = 598.93				0 = 599.80			
PRESSURE DATA - DAIHB (AMES 11-073-1	AMES 11-073(DAI48) -140A/B/C/R ORB BODY FLAP UP		1076.6800 IN. XO .0000 IN. YO 375.0050 IN. ZO	-3.840 MACH = 1.0981	DEPENDENT VARIABLE CP			.196 MACH # 1.0981	DEPENDENT VARIABLE CP			4.273 MACH = 1.0981	DEPENDENT VARIABLE CP			-3.863 MACH = 1.0998	DEPENDENT VARIABLE CP		
DATE 13 FEB 76 TABULATED	e de la companya de	REFERENCE DATA	SAEF = 2590.0000 SG.FT. XMRP = 1 LAEF = 474.8000 IN. YMRP = BREF = 936.0680 IN. ZMRP = SCALE = 0350	ALPHA (!) = +3.95 BETA ('I) =	SECTION (1) BODY FLAP UPPER	x/L9 1.0180 1.0450	######################################	ALPH4 (1) = -3,948 BETA (2) =	SECTION (1) BODY FLAP UPPER	X/LB 1.0180 1.0460	1655 8785 030. 000.04 1655 8785 030.04	ALPHA (1) = -3.942 BETA (3) =	SECTION (1)BODY FLAP UPPER	X/128 1.0180 1.0460	1835 - 1414 000.04 000.04 - 18973 - 000.04	ALPHA (2) = .059 BETA (1) =	SECTION (1)30DY FLAP UPPER	X/LB 1.0180 1.0450	PH; . 000 4040 43.000 4560 43.000

CARE IS FEED IN	DAIA - DAITO (AIES 11-0/3	1-6/0-1							
AMES 11-	AMES 11-073(0A148) -140A/B/C/R CRB BODY FLAP UP	R CYB BO	DY FLAP UP			(XEBF64)			
ALPHA (2) = .062 BETA (2) = .193	MACH = 1.0998	o	5 29.80	Œ	•	75.807	3	*	3.1909
SECTION (1:800Y FLAP UPPER	DEPENDENT VARIABLE CP				•				
X/LB 1.0180 1.0450									
PH: - CD339573961 - 90.6G240704283									
ALPH4 (2) = .059 BETA (3) = 4.253	MACH = 1.0998	ø	= 599.80	۵		708.37	1	# W	3.1909
SECTION : 1) BODY FLAP UPPER	DEPENDENT VARIABLE CP		·						
09HE 1 0810 1 ET/X									
. 100 4297 . 100 3281 3957									
ALPHA (3) = 4.02; BETA (1) = -3.865	MACH * 1.0995	a	= 500.25	۵		15.607	1 / E	'n W	3.1948
SECTION (1) BCDY FLAP UPPER	DEPENDENT YARIABLE CP								
X/L3 1.0180 1.0460									
0215'- 65'5'- CCC' 65'6'- SCC'									
ALPHA (3) = 4.021 BETA (2) = .178	MACH = 1.0995	o	= 600.25	Ω.	•	709.31	F8/12	m *	3.1949
SECTION (1)800Y FLAP UPPER DEPE	DEPENDENT YARIABLE CP								
X/LB 1.0180 1.0460									
PHI 200 1115 - 2055 64 - 2051 - 2051 84 - 2051									
A_PHA (3) = 4.02+ BETA (3) = 4.243	масн → 1.0995	o	= 600.25	۵		709.31	ž	Mi N	3.1949
SEUTION (1) BODY FLAP UPPER	DEPENDENT VARIABLE CP								
X/L3 1.0180 1.0450									
1987 - 0357, - 030, Ct.									

1.6:83 1.0450
10 10 10 10 10 10 10 10 10 10 10 10 10 1

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100 m PAGE 3588 Z. (XES/P) 710,78 AMES 11-073(04148) -140A/B/C/P ORB BODY FLAP UP * 599.84 TABULATED PRESSURE DATA - 0A198 (AMES | 1-073-1) ø 4.249 MACH = 1.0980 DEPENDENT VARIABLE CP EETA (3) = SECTION OF BOOK FLAP UPPER 4_9-x (5) = 11.925 CATE (3 FEB 75

-,4588 -,4718 -,4531 -,4826

1,0383 1.0480

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DATE 13 FEB 76	TABULATED	TABULATED PRESSURE DATA - OA148 (AMES 11-073-1	11-073-	<u>-</u>			_	PAGE 5689
		AMES 11-073(CA148) -140A/B/C/R ORB BODY FLAP UP	C/R ORB	BODY FLAP UP		(XEBF65)		(05 AUG 75)
REFERENCE DATA						PARAMETRIC DATA	C DATA	
SREF = F690.0009 SO.FT. x L9EF = 474.8300 IN. y SPEF = 956.0680 IN. Z SCALE = .0300	XMRP = 1 XMRP = 2 ZMRP =	1075.6800 IN. XO .0050 IN. YO 375.0000 IN. ZO			RUDDER = BOFLAP = R-ELVN =	5.000 16.300	SPOBRK = L-ELVN = MACH =	55,000 -4,000 .900
ALPHA (1) = -3.965 BETA	1 (1) =	-3.837 MACH = .90C3 /	ø	* 600.12	۵.	- 1057.6	RN/L	= 3.576
SECTION (1)BODY FLAP UPPER		DEPENDENT VARIABLE CP						
X/LB 1.6:80 1.0450								
PHI .00029282949 .40.00032163677				* 	•			
ALPHA (1) = -3.563 BETA	= (2) =	.195 MACH = .90037	0	= 600.12	0.	= 1057.6	RN/L	3.5768
SECTION (1)BODY FLAP UPPER		DEPENDENT VARIABLE CP		-				
X/LB 1.C:80 1.0460								
PHI .00029303130 90.00031053518								
ALPHA (1) = -3.957 BETA	(2) =	+.274 MACH = .90037	0	s 600.12	۵	• 1057.6	אאן.	- 3.5768
STOTION (1)BODY FLAP UPPER		DEPENDENT VARIABLE CP			•			
X/LB 1.0180 1.0460								
PHI .00031073244 40.00029133215								
ALP4A (2) = .052 BETA	(1)	-3.869 MACH = .90007	ø	= 599.62	۵	= 1057.3	RN/L	= 3.5759
SECTION (1) BODY FLAP UPPER		DEPENDENT VARIABLE CP						
X/LB 1.0180 1.0460								•
PH1 .00030212955 +0.03032743546		i i i i i i i i i i i i i i i i i i i						

CATE 13 FEB 76 TABULATED P	TABULATED PRESSURE DATA - DAI48 (AMES 11-073-1)	1-073-1				
	AMES 11-073(0A148) -1404/8/C/R ORB BODY FLAP UP	R ORB BODY FLAP UP		(XE8F65)		
ALPHA (2) = .054 BETA (2) =	.179 MACH * .90007	59.65	a	= 1057.3	RN/L	a 3.5759
SECTION (1'BODY FLAP UPPER	DEPENDENT VARIABLE CP					
X/LB 1.0180 1.0460						m.
PHI .00029853014 40.00030563330						
ALPHA (2) = .050 BETA (3) =	4.252 MACH = .90007	g = 599.62	۵	= 1057.3	., ,,	3.5799
SECTION ! 1150DY FLAG UPPER	DEPENDENT VARIABLE CP					
X'LB 1.0160 1.3469						
144 .0003023115 000.004						
ALPHA (3) = 4.021 BETA (1) =	-3.873 MACH = .89817	g * 598.16	۵	= 1059.3	FN/L	3.5705
SECTION (1) BODY FLAP UPPER	DEPENDENT VARIABLE CP					
X/LB 1.0180 1.0463						
PH1 .00030793133 40.00032333387				1	į	
ALPHA (3) = 4.021 BETA (2) =	.183 MACH = .89817	0 - 598.16	O.	= 1059.3	7	3.5/05
SECTION (1)BODY FLAP UPPER	DEPENDENT VARIABLE CP					
1.0180 1.0460						
991 .0002895 - 2072 40.00030573144						
ALPHA (3) = 4.023 BETA (3) =	4.246 MACH = .89817	0 = 598.16	O.	= 1059.3	RN/L	€ 5.5/US
SECTION (1)BODY FLAP UPPER	DEPENDENT VARIABLE CP					
X/LB !.0180 1.0450			i			
PH1 .05030433067 45.06027522991						

CATE :3 FEB 76 TABULATED PRE	PRESSURE DATA - OAI48 (AMES 11-073-1	1-073-1					e.	PAGE 5591	16
CA .	AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP UP	R ORB BO	DY FLAP UP			(XEBF65)			
ALPHA (4) = 7.876 BETA (1) =	-3.866 MACH = .89873	o	= 598.61	Q.		1058.8	RN/L	# M	3.5706
SECTION (1)BODY FLAP UPPER	DEPENDENT VARIABLE CP								
X/LB 1.0180 1.0450									
PH1 .05029532973 %0.00031083233									
ALPHA (4) = 7.884 BETA (2) =	.183 MACH = .89873	σ	= 598.61	۵	*	1058.8	RN/L	m +	3.5706
SECTION (1)BODY FLAP UPPER	DEPENDENT VARIABLE CP								
X'LB 1.0180 1.0460									
PHI .00328372935 40.03029563089									
ALPHA (4) = 7.882 BETA (3) =	4.244 MACH * .89873	o	= 598.61	Q.	ı	1058.8	RN/L	# M	3.5706
SECTION (1)BODY FLAP UPPER	DEPENDENT VARIABLE CP								
X/L9 1.0190 1.0450									
149 1500 - 18952 - 18023 190.000 - 18684		and the supplier of the supplier							
ALPHA (5) = 11.957 BETA (1) = -	-3.854 жсн ≈ .89780	ō	= 598.05	٥		0.0901	RN/L	m #	3.5707
SECTION (1)BODY FLAP UPPER	CEPENDENT VARIABLE CP							•	
X/LB 1.0180 1.0460									
PH1 .00028512903 40.00031373254				•					
ALPHA (5) = 11.920 BETA (2) =	.190 MACH = .89780	0	= 598.05	a .		1060.0	RN/L	m H	3.5707
SECTION (1)BODY FLAP UPPER	DEPENDENT VARIABLE CP								
X/LB 1.0180 1.0460									
PHI . 50025702572 -0.00029182975									

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RN/L (XE8F65) 1060.0 = 598.05 AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP UP TABULATED PRESSURE DATA - 0A148 (AMES 11-073-1) ø 4.258 MACH = .89780 DEPENDENT VARIABLE CP ALPHA (5) = 11.907 BETA (3) = SECTION 1 11800Y FLAP UPPER 1.0180 1.0460 DATE 13 FEB 76

= 3.5707

PACE 5692

-.2945 -.2974 -.2803 PH1 .300 40.000

X/LB

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DATE 13 FE	FEB 76 TABULATED PRESSURE DATA - DAIWR (AMES 11-073-1	-072-1				•	PART SEGN	
		•						
	AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP UP	ORB BODY	FLAP UP		(XE8F66)	~	05 AUG 75 1	
	REFERENCE DATA				PARAMETRIC DATA	DATA		
SOEF = 230SCALE = 230SCALE = 30SCALE	2690.0903 S0.FT. XMRP = 1076.6800 IN. XO 474.8003 IN. YMRP = .6003 IN. YO 936.0800 IN. ZMRP = 375.0000 IN. ZO .0300			RUDDER = BOFLAP = R-ELVN =	5.000 16.300 -4.000	SPDBRK = L-ELVN = MACH =	55.000 -4.000 .600	
ALPHA (1)	= -4.037 BETA (1) * -7.846 MACH = .59482	0	591.26	۵.	= 2387.4	RN/L	* 4.8005	
SECTION (SECTION (:) BODY FLAP UPPER DEPENDENT VARIABLE CP							
x/LB	1.0:30 1.0460							
PHI .000 .u. 003	26012530 29543219							
ALPHA (1)	= -3.893 BETA (2) = -3.843 MACH = .59482		591.26	Œ	= 2387.4	RN/L	- 4.8005	
SECTION (SECTION (1:BODY FLAP UPPER DEPENDENT VARIABLE CP							
x/LB	1.0180 1.0460							
PH1 .500 40.500	25282451 29333219			1				
ALPHA (1)	= -3.894 BETA (3) = .194 MACH = .59482		591.26	.	= 2387.4	RN/L	± 4.8005	
SECTION (SECTION (1)BODY FLAP UPPER DEPENDENT VARIABLE CP							
x/LB	1.0180 1.0460							
PH1 .000 #6.000	24572529 28323:91							
ALPHA (1)	* -3.902 BETA (4) * 4.271 MACH * .59482		591.26	۵.	= 2387.4	RN/L	= 4.8005	
SECTION (SECTION (1)BODY FLAP UPPER DEPENDENT VARIABLE CP							
X/LB	1.0180 1.0460							
PHI .000 40.000	24 85 2444 27583016	, r						

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			AMES 11-	AMES 11-073(04148) -:40A/B/C/R ORB BODY FLAP UP	3) -:40	A/B/C/R	ORB BC		AP UP			(XEBF66)			
ALPHA (1) =	-3.917 BETA	A (5) =	8.333	MACH	≥ .59482	1 85	O	H	591.26	۵	iù #	2387.4	RN/L	<i>≯</i>	4.8005
SECTION (17B0	1)BODY FLAP UPPER		DEPE	DEPENDENT VARIABLE CP	NABLE (6									
X/LB 1.0180	180 1.0450														
PHI .0002642 40.0002614	5422704 5142791														
ALPHA (2) =	. CSS BETA	A (1) =	-7.886	MACH	- 59550	550	ø	g)	592.43	۵.	તાં •	2386.4	RN/L	#	4.8075
SECTION (11BC	SECTION (1)BODY FLAP UPPER		DEPE	DEPENDENT VARIABLE CP	NABLE (<u>e,</u>									
X/LB 1.0180	180 1.0450														
PHI .0002671 40.0002995	5712583 9953286														
ALPHA (2) =	.075 BETA	A (2) *	-3.862	MACH	. 59550	550	a	II II	592.43	Q.	<u>در</u> در	2386.4	PN/L	<i>x</i>	4.8075
SECTION (1) BODY FLAP UPPER	ODY FLAP UPPER		DEPE	DEPENDENT VARIABLE CP	IABLE (<u>e</u> ,									
x/L3 1.0180	1.0460														
PH! .3302569 .0002896	569 2482 396 3172														
ALPHA (2) =	.076 9ETA	A (3) =	.175	MACH	• .59550	350	0	ii D	592.43	۵.	E3 ■	2386.4	1XE	<i>\$</i>	4.8075
SECTION (1) BODY FLAP UPPER	IDY FLAP UPPER		13d30	DEPENDENT VARIABLE CP	IABLE (p,								•	
X/LB 1.0180	80 1.0460														
PHI .0002517 .2.0002797	5172529 1973104														
alpus (2) =	.073 BETA	# (÷) #	4.250	МАСН	59550	55	o	en m	592.43	۵	£ ₩	2386.4	ZNZ.	j j	4.8075
SECTION (1) BODY FLAP UPPER	OY FLAP UPPER		DEPEN	DEPENDENT VARIABLE CP	IABLE C	9.									
X/LB 1.0180	80 1.0450														
PH1 .0002552 +0.5002770	522529 703057	•	•												•

PAGE 5694

TABULATED PRESSURE DATA - DA148 (AMES 11-073-1)

DATE 13 FEB 76

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PAGE 5695	•	RN/L = 4.8075				RN/L = 4.8049				RN/L * 4.8049
	(XE8F66)	₽ 2386.4				- 2386.7				= 2386.7
		۵				۵.				۵.
1.)	BODY FLAP UP	= 592.43				≈ 591.36				= 591.36
11-073-	/R ORB	ø				O				ø
PRESSURE DATA - DA148 (AMES 11-073-1)	AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP UP	В.308 МАСН ≈ .59550	DEPENDENT VARIABLE CP			-7.899 МАСН ≈ .59494	DEPENDENT VARIABLE CP			MACH = .59494
PRESSURE DATA	AMES 11-073	8.308 M	DEPENDE			-7.899 M	DEPENDER			-3.85+ M
TABULATED		.069 BETA (5) =	LAP UPPER	1.0463	2841 2839	21 BETA () =	LAP UPPER	1.0460	2897 3250	24 SETA (2) =
DATE 13 FEB 76		ALPHA (2) = .0	SECTION (1)BOOY FLAP UPPER	X/LB 1.0180 1.0460	PH1 .0002824 .0.0002625	ALPHA (3) = 4.021	SECTION (1:800Y FLAP UPPER	X/LB 1.2180 1.0460	PH: .0002907 40.0003065	ALPHA (3) = 4.024

	RN/L = 4.8049				RN/L = 4.8049
	M				
	RN/L				RN/L
	2386.7				2386.7
					ĸ
	۵				۵
	591.36				591.36
					•
	o				o
	.59494	RE CP			.59+9+
		RIAE			
	.186 MACH = .59494	DEPENDENT VARIABLE CP			4.244 MACH = .59494
	. 186	DEPE			4.244
	PH3 (3) = 4.622 BETA (3) =				[PHA (3) = 4.025 BETA (4) =
2	BETA	UPPER	60	90 00	BETA
41	622	SECTION (1:300Y FLAP UPPER	1.0:80 1.0460	25552591 27332950	. 025
กับ	ır	920	: :8:5	2555	3
·	# #2	-			#
7	10	3		PH1 . 303 #0. 333	~
•	ŗ.	SECT	1.3	ğ ;	AH.

1.0180 1.0460

Table .

[1] 中野町町町 虹川 [2] 「昨」「町町」

Benefit to the state of the sta

SECTION (1) BCOY FLAP UPPER 1.0160 1.0450

x/La

DEPENDENT VARIABLE CP

-.2513 PHI 233 SECTION (1)BODY FLAP UPPER

X/LB

DEPENDENT VARIABLE CP

-.273!

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	CATE 13 FEB	3.75	TABULATED	PRESSURE	TABULATED PRESSURE DATA - OAIMB (AMES 11-073-1)	(AMES 1)	1-073-1	_				a.	PAGE 3597	29.1
				AMES 11	AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP UP	140A/B/C/F	N ORB BO	OY FLAP U	Δ.		(XE8F66)			
	(n) Whalle	7.989	BETA (5) =	8.293	MACH =	. 59424	0	= 590.06	a .	•	= 2387.2	PN/L	ar H	1797.4
	1 4011035	DBODY FLAP UPPER	PPER	16 30	DEPENDENT VARIABLE CP	LE CP								
	x/Le	1.0180 1.0460	0											_
	PH1 .000 .000 .000	29833058 24302572	ω ou											
	ALPHA (5)	≥ 12.002	BETA (1) =	-7.845	MACH	.59422	σ	= 590.06	e.	•	• 2387.2	PN/L	#	4 7978
	SECTION (11500Y FLAP UPPER	H3do	id30	DEPENDENT VARIABLE CP	LE CP								
	X/LB	1.0180 1.0450	0											
	PH1 000 40.000	29152787 25353148	۰. ه											
	ALPHA (5)	= :2.020	BETA (2) =	-3.839	MACH	.59422	a	= 590.06	Q	•	= 2387.2	FBV/L	<i>x</i>	4.797B
	SECTION	(1)BCDY FLAP UPPER	PPER	DEP	DEPENDENT VARIABLE CP	LE CP								
RIO F	x/7.8	1.0180 1.0450	0											
JINAL POOR	PHI 0000.07	24912502 2755298 5	O. IO	-										
QU	ALPHA (5)	= 11.983	BETA (3) =	.186	MACH =	.59422	o	= 590.06	<u>α</u>		= 2387.2	FX /L	#	4.7978
AGI	SECTION C	THEODY FLAP UPPER	PPER	1430	DEPENDENT VARIABLE CP	LE CP							•	
ITY	X/LB	1.0180 1.0960	C											
i	PH1 020.04	24C+2494 25532810	0 t											
	ALPHA (5)	11.980	9ETA (+1) =	4.247	MACH .	. 59422	a	- 590.06	e.	•	= 2387.2	RN/L	<i>3</i>	9797, 4
	SECTION (SECTION (1:30DY FLAP UPPER	PPER	DEP	DEPENDENT VARIABLE CP	LE CP								
	X/LB	1.2180 1.0450	0											
	# # 000 000 000	7779 1079												
) : !		1							•				

BL61.4 # 1/NH PASE 5598 (XEBF66) 2387.2 590.06 AMES 11-07310A148) -140A/B/C/R ONB BODY FLAP UP TABULATED PRESSURE DATA - CA148 (AMES 11-073-1) O 8.307 MACH = .59422 DEPENDENT VARIABLE CP BETA (5) = SECTION FIREDY FLAP UPPER - . 2953 - . 2545 1.0180 1.0460 ALPHA (5) = 11.973 -.2842 -.2374 DATE 13 FEB 76 PH1 .000 40.000 A//B

DATE 13 FEB 75 TABULATED	ID PRESSURE DATA - OATHB (AMES 11-073-1	1-073-1				_	PAGE 5699	5693
	AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP UP	R ORB BODY	FLAP UP		(XEBF67)	_	DE AUG	25
REFERENCE DATA					PARAMETRIC DATA	C DATA		
SPEF = 2690.0000 SQ.FT. XMMP = 1474.8000 IN. YMMP = 875.0580 IN. ZMMP = SCALE = 0.0300	1076.6800 IN. XO .0000 iN. YO 375.0000 IN. ZO			RUDDES = BDFLAP = R-ELVN =	.000 22.55 00.4-	SPOBRK = L-ELVN = MACH =	រំ	55.935 14.935 .935
ALPHA (1) = -3.954 BETA (1) =	± -3.849 MACH ≈ .90057		600.66	۵.	1058.0	P. A.	#	3.6340
SECTION (1) BODY FLAP UPPER	DEPENDENT VARIABLE CP							
X/L9 1.0180 1.0450								
PHI .000 - 3259 - 3265 .000 - 3427 - 3507								
4LFHA (!) = -3.952 BETA (2) =	* .192 MACH .90057	ď	600.66	۵	= 1058.0	RN/L		3.6340
SECTION (!) BODY FLAP UPPER	DEPENDENT VARIABLE CP							
1.0180 1.0460								
PH) .GDB32733258 40.60033273653								
ALEHA (1) = -3.959 BETA (3) =	= 4.272 MACH = .90057	0	600.66	۵	1058.0	1887		3.6340
SECTION (1)BODY FLAP UPPER	DEPENDENT VARIABLE CP							
X718 1.0180 1.0460								
PH: .00032843327 -0.00033083534								
ALPHA (2) = .049 BETA (1) =	* -3.871 MACH * .90130	. 0	601.04	۵	- 1056.9	RAVIL		3.6167
SECTION (1)BODY FLAP UPPER	CEPENDENT VARIABLE CP							
X/LB 1.0180 1.0%								
PHI 200 - 7305 - 600								

. 000 40.030

CATE 13 FEB 78 TABULATED PR	PPESSURE DATA - DAIMB (AMES 11-073-1)	1-073-1	•				PAGE 5700	
	ANES 11-073(0A148) -146A/B/C/R ORB BODY FLAP UP	R ORB BO	OY FLAP UP		(XEBF67)	7)		
ALEHA : 21 = .052 BETA (2) =	.177 MACH = .90130	ø	= 601.04	Q.	* i056.9	ž	3.5167	_
SECTION () BODY FLAP UPPER	DEPENDENT VARIABLE CP							
2545.1 CB10.1 EJ.X							•	
FH; 1000 - 3255 - 3291 50.000 - 3255 - 3355								
ALPHA (2) = .052 BETA (3) =	4.253 MACH = .90130	ø	- 501.04	۵	• 1056.9	3/12	- 3.6167	
SECTION (1)BODY FLAP UPPER	DEPENDENT VARIABLE CP							
X.E8 : 0:80 ::0480								
89:87- 88387- 200000 (7:80:0000000000000000000000000000000000								
ALFEA (7) = 9.019 867A (1) =	-3.877 MACH * .89987	a	* 599.87	۵.	■ 1058.3	T/AE	3.5007	
SECTION (1980DY FLAP UPPER	DEPENDENT VARIABLE CP							
09+0': 08:0': e√x								
145. 1458 1458 153.74								
ALDHA (3) = 4.518 BETA (2) =	.181 MACH = .89987	a	= 599.87	a.	= 1058.3	RN/L	TECH N	
SECTION F 1:800Y FLAP UPPER	DEPENDENT VARIABLE CP							
CS-CT DBCTT BT/X								
3157 - 3202 -000 - 3157 - 3202 -0000 - 3250 - 0000								
A_004 (3) = 4.022 SETA (3) =	4.243 МАСН ≈ .89997	σ	* 599.87	۵	= , 1058.3	1/8/	3.5027	
SECTION (1) BODY FLAP UPPER	DEPENDENT VARIABLE CP							
X/28 1.6180 1.0460								
71887 - 88887 - 0007 - 00070 -							1	

	3 7E TABULATEO P	PRESSURE DATA - DAIMB (AMES 11-073-1)	1-073-1	•			д.	PASE 5701	
		AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP UP	'R 0R8 80	DY FLAP UP		1XEBF67)			
क सम्बद्धाः	= 7.985 BETA (1) =	-3.860 MACH = .90040	ø	= 660.32	۵	= 1057.8	RN/L	3.5837	
\$10B	19802Y FLAP UPPER	DEPENDENT VARIABLE CP							
m .J ×	1.0:83 1.0480								
# 100 000 000 000 000 000 000 000 000 000	32363288 33193480								
(A) Whd W	= 7.993 BETA (2) =	. 182 МАСН * .900+0	œ	= 600.32	Ω.	= 1057.8	.1 Ž	a 3.5837	
SECTION (MESON FLAP UPPER	DEPENDENT VARIABLE CP							
m : !	1.0185 1.0450								
	- 3222 - 3173 - 3182 - 3421								
1	= (\$) ATTE COS	4.242 MACH = .90040	a	= 600.32	۵.	= 1557.8	N. A.	* 3.5837	
SECTION :	DESCRIPTION CAPER	DEPENDENT VARIABLE CP							
en.x	1.0180 1.0460								
00 00 00 1. 0 8. J	33183374 31475218								
ALPLA CO	= 11.953 BETA (1) =	-3.856 MACH = .89987	o	≠ 599.87	۵.	= 1058.3	N. A.	= 3.5752	
SECT CES	COSCEPT OFFER	DEPENDENT VARIABLE CP							
87/X	1.0187 1.0460								
	-, 3279 -, 3350 -, 3350 -, 3594								
ัติ เกาะใช	= 11.953 BETA (2) =	.189 MACH ± .89987	σ	- 599.87	Q	= 1058.3	Ē	3.5762	
SECTION (C) BODY Flap UPPER	DEPENDENT VARIABLE CP							
×/∴e	1.0180 1.3460								

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P.43E 573B Ž (TESTEX) 1050 1050 1050 ANCS 11-073(0A148) -1404/8/C/R ORB BODY FLAP UP 593.97 TABULATED PRESSURE DATA - DAINB (AMES 11-073-1) C **-** 89997 MACH = ::.953 BETA (3) = CANE 13 FEB 76 E ALPINA

DEPENDENT VARIABLE CP

RECTION 1 1808 FLAD GEORGE 1.0190 1.0460

-.3288 -.3388 -.3085 -.3334

- OA148 (AMES 11-073-1) PAGE 5703	AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP UP (XEBF6B) (05 AUG 75	PARAMETRIC DATA	RUDDER = .30C SPDBRK = 55.000 BDFLAP = 22.500 L-ELVN = -4.000 R-ELVN = -4.000 MACH = .500	= .59574 0 = 593.04 P = 2387.2 RN/L = 4.8347	IABLE CP			* .59574 G = 593.04 P = 2387.2 RN/L = 4.8347	IABLE CP			= .59574 0 = 593.04 P = 2387.2 RN/L = 4.8347	IABLE CP			* .59574 0 = 593.04 P = 2387.2 RN/L = 4.8347	IABLE CP		
TABULATED PRESSURE DATA - OA	ANES 11-073(0A148)		XMRP = 1076.6800 IN. XO YMRP = .0000 IN. YO ZMRP = 375.0000 IN. ZO	(1) = -7.845 MACH	DEPENDENT VARIABLE			(2) ± -3.844 MACH 3	DEPENDENT VARIABLE			(3) = .193 MACH =	DEPENDENT VARIABLE			(4) = 4.270 MACH *	DEPENDENT VARIABLE		
DATE 13 FEB 76 TA		REFERENCE DATA	SPEF = 2690.0000 SQ.FT. XM LREF = 474.8000 IN. YM 89EF = 936.0680 IN. ZM SCALE = 0.0300	ALPHA (1) = -3.934 SETA	SECTION (1)BODY FLAP UPPER	X/LB 1.0180 1.0460	1545 2305 000.0+ 1985 2525 000. 1Hq	ALPHA (1) = -3.918 BETA	SECTION (1)BODY FLAP : 2ER	X/LB 1.3180 1.0460	FHI .30029212663 40.30031573424	ALPHA (1) = -3.895 BETA	SECTION (1)BODY FLAP UPPER	X/LB 1.0180 1 0460	PH1 .60026482718 .40.00030853378	ALPHA (1) = -3.903 BETA	SECTION (1)BODY FLAP UPPER	X/LB 1.0180 1.0460	PH1 .000 2895 000

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(XE8F68)	+ P = 2387.2 RN/L = 4.8347) P = 2387.2 RN/L = 4.8372				I P = 2387.2 RN/L = 4.8372				P = 2387.2 RN/L = 4.8372				P = 2387.2 RN/L = 4 9372			
R OPB BODY FLAP UF	0 = 593.04				0 = 592.68				0 = 592.68				.0 = 592.68				0 = 592.68			
AMES 11-073(0A148) -140A/B/C/R OFB BODY FLAP UP	8.339 MACH ≈ .59574	DEPENDENT VARIABLE CP			-7.888 MACH = .59556	DEPENDENT VARIABLE CP			-3.860 MACH = .59556	DEPENDENT VARIABLE CP			.177 MACH = .59556	DEPENDENT VARIABLE CP			4.252 MACH = .59556	DEPENDENT "ARIABLE CP		
	ALPHA (1) = -3.916 BETA (5) =	SECTION (1) BODY FLAP UPPER	X/LB 1.0180 1.0450	PH1 .00029513008 +0.00028523018	ALPHA (2) = .067 BETA (1) =	SECTION (1)BODY FLAP UPPER	X/LB 1.0180 1.0460	PH! .00030582933 90.0003094	ALPHA (2) = .076 BETA (2) =	SECTION (1) SODY FLAP UPPER	1.0180 1.0460	PHI .GGG29112848 .40.00030323302	ALPHA (2) = .078 BETA (3) =	SECTION (1) BODY FLAP UPPER	X/LB 1.0:80 1.0450	3:2E'- 920E'- 000'04 2:3E'- 4:83'- 000'04	ALPHA (2) = .074 BETA (4) =	SECTION (1)BODY FLAP UPPER	X/LB .3180 1.0460	PH1 .00028952835 .0003093286

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CATE 13 FEB 76 TABULATED F	PRESSURE DATA - DAINB (AMES 11-073-1)	1-073-1					PAGE 5705
	AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP UP	R ORB BOD	Y FLAP UP		(XE8F68)		
= (5) = (5) = (5) = (5) =	8.307 MACH = .59556	ø	= 592.68	۵.	= 2387.2	RN/L	= 4.8372
SECTION (1780DY FLAP UPPER	DEPENDENT VARIABLE CP	•					
X/L9 1.0180 1.0460							
PH1 .00030373056 +9.00029993056							
ALPHA (3) = 4.022 BETA (1) =	-7.901 MACH = .59644	σ	= 594.20	٥	= 2386.1	RAY	8+46
SECTION (1)50DY FLAP UPPER	DEPENDENT VARIABLE CF						
X/L9 1.0180 1.0450							
. 100 - 13089 - 30884 100 - 13089 - 33884							
ALPHA (3) = 4,025 BETA (2) =	-3.862 масн = .59644	ø	= 594.20	٩	= 2386.1	RN/L	a 4.8445
SECTION (1) BODY FLAP UPPER	DEPENDENT VARIABLE CP						
x/Le 1.0180 1.0460							
PH! .00029862991 .000036523437							•
ALPHA (3) = 4,023 BETA (3) =	. 182 мАСН = . 596чч	0	= 594.20	٥	= 2386.1	RN/L	a 4.8446
SECTION (1)800Y FLAP UPPER	DEPENDENT VARIABLE CP						
X/LB 1.0180 1.0465							
PH! .00026982985 .000.0+.29353203							
ALPHA (3) = 4,027 BETA (4) =	4.243 MACH = .59644	O	= 594.20	O.	= 2386.1	RN/L	344B.4 =
SECTION (1)BODY FLAP UPPER	DEPENDENT VARIABLE CP						
x/Le 1.0180 1.0450							
1906: - 210E: - 0003							
- 3035							

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DATE 13 FEB 76 TABULATED PR	PRESSURE DATA - OAI48 (AMES 11-073-1)	1-073-1			14.	PAGE 5705
•	AMES 11-073(0A148) -140A/B/C/	-140A/B/C/R ORB BODY FLAP UP		(XE8F68)		
ALPHA (3) = 4.033 BETA (5) =	8.290 МАСН = .59644	0 = 594.20	۵	= 2386.1	RN/L	3446
SECTION (1)BCDY FLAP UPPER	DEPENDENT VARIABLE CP					
X/LB 1.0190 1.0460						
PHI .00031263280 4.000028762928						
ALPHA (4) = 7.982 BETA (1) = .	-7.890 MACH ≈ .59642	0 = 594.33	۵	- 2386.8	RNIL	= 4.8439
SECTION (1)BODY FLAP UPPER	DEPENDENT VARIABLE CP					
X/LB 1.0180 1.0460						
PHI .00030693129 +0.03032113456						
ALFHA (4) = 7.993 BETA (2) = -	-3.860 MACH = .59642	0 = 594.33	a.	= 2386.8	FN/L	= 4.8439
SECTION (1)BODY FLAP UPPER	DEPENDENT VARIABLE CP					
X/LB 1.0180 1.0460						
PHI .C0029172931 46.00030073351						
ALPHA (4) = 7.99; BETA (3) =	.185 MACH * .59642	0 = 594.33	Ω.	* 2386.8	RN/L	4.8 439
SECTION (1) BODY FLAP UPPER	DEPENDENT VARIABLE CP					
X/LB 1.0180 1.5460						•
PHI28252813000 .04						
ALPHA (4) = 7.992 BETA (4) =	4.234 MACH * .59642	0 = 594.33	۵	= 2386.8	RN/L	= 4.8439
SECTION (1) BODY FLAP UPPER	DEPENDENT VARIABLE CP					
X/LB 1.0180 1.0450						
PH1 .00029853055 +0.00038883020						

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<u> </u>	(XEBF68)	0 = 594.33 P = 2386.8 RN/L = 4.8439					Q = 594.57 P = 2386.7 RN/L = 4.8403				0 = 594.57 P = 2386.7 RN/L = 4.8403				0 = 594.57 P = 2386.7 RN/L = 4.8403				1 = 594.57 P = 2386.7 RN/L = 4.8403			
PRESSURE DATA - DAIMB (AMES 11-073-1)	31 140A/B/C/R	8.288 MACH = .59642 Q	DEPENDENT VARIABLE CP	·			-7.852 MACH = .59656 Q	DEPENDENT VARIABLE CP			-3.840 MACH = .59656 Q	DEPENDENT VARIABLE CP			.186 MACH = .59656 0	DEPENDENT VARIABLE CP			4.246 MACH = .59656 0	DEPENDENT VARIABLE CP		
DATE 13 FEB 76 TABULATED	1	1:	SECTION (1) BODY FLAP UPPER	X/LB 1.0180 1.0450	3169	40.000 - 2796 - 2897	ALP44 : 5) = 11.959 BETA (1) =	SECTION (1)BODY FLAP UPPER	X:15 1.0180 1.0463	-: 302 - 3023 - 3075 -: 503 - 3183 - 3395	A_2-4 (5) = 11.978 BETA (2) =	SECTION (1) BODY FLAP UPPER	X/L3 1.0180 1.0460	PHI .50028392835 90.00030163247	ALPHA (5) = 11.981 BETA (3) =	SECTION (1)BODY FLAP UPPER	X/LB 1.0180 1.0460	18528202820 20.00028843112	ALP44 (5) = 11,977 BETA (4) =	SECTION (1) BODY FLAP UPPER	X/18 :.0:80 1.0450	

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-0.000 -.2752 -.2896

TABULATED PRESSURE DATA - DAINB (AMES 11-073-1) DATE 13 FEB 76

(XE8F68)

PAGE 5708

RN/L = 4.8403

= 2386.7

٥

= 594.57

0

AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP UP

8.308 MACH = .59656 BETA (5) = ALPHA (5) = 11.969

DEPENDENT VARIABLE CP

SECTION (1)BODY FLAP LIPPER 1.0180 1.0450 -.3157 PH1 .000 40.000 X/LB

DATE 13 FEB 76	TABULATED PRESSURE DATA - DAINB (AMES 11-073-1	11-073-1			Ϋ́d	PAGE 5709
	AMES 11-073(0A148) -140A/B/C	ORB BODY FLAP UP		(XEBF69)	9) (05 AUG	UG 75)
REFERENCE DATA	ЭАТА			PARAMETRIC DATA	DATA	
SREF = 2690.0300 SQ.FT. LPEF = 474.9300 IN. BREF = 535.0590 IN. SCALE = .0300	7889 = 1076.6800 IN. XO 7889 = .0050 IN. YO 789 = 375.0000 IN. ZO		RUDDER = BDFLAP = R-ELVN =	.000 22.500 -10.000	SPDBRK = L-ELVN = MACH =	55.000 -10.000 .900
ALPHA (1) = -3.999	BETA (1) = -3.851 MACH = .89987	0 = 599.88	۵	= 1058.3	RN/L	3.6263
SECTION (1)BODY FLAP UPPER	PPER DEPENDENT VARIABLE CP					
X/LP 1.0180 1.0460						
FHI .00032753253 49.00033673573						
ALPHA (1) = -3.957	BETA (2) = .189 MACH = .89987	0 = 599.88	α.	* 1058.3	RN/L	3.6263
SECTION (1) BODY FLAP UP	UPPER DEPENDENT VARIABLE CP					
X/LB 1.6:84 1.0450						
1Hd - 000 - 1952 - 000 04 5346 - 5555 - 000 04	210					
ALPHA (1) = -3.991	SETA (3) = 4.272 MACH = .89987	0 = 599.88	۵	1058.3	RN/L	3.6263
SECTION (1)BODY FLAP UPPER	PPER DEPENDENT VARIABLE CP					
X/LB 1.0180 1.0460						
PH1 .00033893417 +0.00031553147						
ALP4A (2) = .509	BETA (1) = -3.869 MACH = .90190	0 = 601.65	a .	- 1056.6	RN/L	- 3.5047
60 6419 YCOB(1) NOITOBS	UPPER DEPENDENT VARIABLE CP					
X/LB 1.0180 1.0450						
PH) .00033023295 40.00033533538						

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DATE 13 FEB 76 TABULATED PR	PRESSURE DATA - CAI48 (AMES 11-073-1)	-073-1					<u>a</u>	PAGE 5710	017
7	AMES 11-073(0A148) -140A/B/C	ORB BOD	ORB BODY FLAP UP			(XE8F69)			
ALPHA (2) = .010 BETA (2) =	.177 MACH * .90190	Ö	* 601.65	۵.	•	1056.6	RN/L		3.6047
SECTION (1'BODY FLAP UPPER	DEPENDENT VARIABLE CP								
X/LB 1.0180 1.0460									
PH1 .00031863259 .000.04									
ALPHA (2) = .007 BETA (3) =	4.253 MACH = .90190	Ö	= 601.65	Q.		1056.6	PN/L	W	3.6047
SECTION (1) BODY FLAP UPPER	DEPENDENT VARIABLE CP								
X/LB 1.6180 1.0450									
PH1 .00033013473 +2.0003:633:63						•			
ALPHA (3) = 4.005 BETA (1) =	-3.869 MACi ³ = .90083	0	= 600.78	Q.		1057.6	RN/L	*	3.5915
SECTION (1)800Y FLAP UPPER	DEPENDENT VARIABLE CP								
X/LB 1.0:80 1.0460									
PH1 .00033783279 40.00533732505	·		÷						
1,544 (3) = 4,002 BETA (2) =	.179 MACH . = .90083	0	= 600.78	۵		1057.6	RN/L	M)	3.5915
SECTION (1) SODY FLAP UPPER	DEPENDENT VARIABLE CP								
X/128 1.0180 1.0450									
Hd: .000.c 									
ALPHA (3) = (4,035 BETA (3) =	4.240 MACH = .90083		600.78	۵		1057.6	RN/L	M H	3.5915
SECTION (1) BCDY FLAT UPTER	DEPENDENT VARIABLE CP								
x/Le 1.5180 1.0460									
#828 1838 300.0# 14d									

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CATE 13 FEB 78 TABULATED		SSURE D	ATA - (PRESSURE DATA - 0A148 (AMES 11-073-1)	11-073-1	_					PAICE 5711	
	Ŕ	11 S3	7310A1	ANES 11-07310A148) -140A/B/C		DDY FI	ORB BODY FLAP UP		(XE8F69)	6		
ALPHA (4) = 7.975 BETA (1)	t!	-3.859	MACH	€ .89993	a	11	600.24	<u> </u>	= 1058.8	RN/L	# W.53	3.5857
SECTION (1:800Y FLAP UPPER		DEPEN	CENT V	DEPENDENT VARIABLE CP								
09+0'1 08:0'1 ET/X												
PHI .coo337 40.coo33073437												
ALPHA : 4; = 7.978 BETA (2)	u -	.182	MACH	= .89993	J	"	600.24	۵.	= 1058.8	RN/L	w w	3.5857
SECTION (1780DY FLAP UPPER		OEPEN	DENT V	DEPENDENT VARIABLE CP								
09+01 0010011 BT/X												
F155 - 3535 - 300.04 - 3255 - 300.04												
ALPHA (4) = 7.979 BETA (3)	"	4.24I	MACH	= .89993	O	,	€00.24	۵	= 1058.8	PN/L	3.5	3.5857
SECTION (1) BODY FLAP UPPER		DEPEN	'N TN3C	DEPENDENT VARIABLE CP								
1.0130 1.0460												
9H) .00033182479 40.00030483807		,										
ALOHA (5) = 11.950 BETA (1)	Ħ	-3.853	MACH	01006. ≠	Ø	#	600.36	۵	= 1058.5	PN/1	# 3.5	3.5793
SECTION 1 19800M FLAP UPPER		DEPEN	DENT V	DEPENDENT VARIABLE CP								
cencil detail et/k												
ALPHA (5: = 11.955 BETA (2)	H	. 189	MACH	01006. ≖	o		600.36	۵.	- 1058.5	RN/L	w.	3.5793
SECTION I 19800Y FLAB GARAGE		(EpE)	DENT V	DEPENDENT VARIABLE CP								
09+011 08:011 E3:X												
98-21- 1687 - 500 OF												

CATE 13 FEB 76

TABULATED PRESSURE DATA - DAING (AMES 11-073-1)

ORB BODY FLAP UP AMES 11-073(04148) -140A/B/C

.90010

4.250 MACH =

= 600.36

1793

3×1

(XEBF69) 1058.5

PAGE 5712

DEPENDENT VARIABLE CP

SECTION : 1180DY FLAP UPPER

ALPHA (5) = 11.948 BETA (3) =

1.0180 1.0450 PH 1000 X/LB

-.3217 -.3+8+ -.3203 +.3309

PAGE 5713 05 AUG 75)		55.000 -10.000 500.01-	* 4.8517				= 4.8517				4.8517				+.8517			
	DATA	SPOBRK = L-ELVN = HACH =	EN/L				" 1/ &				E TVNS				- 1/8e/1			
(XE8F70)	PARAMETRIC	.030 22.550 -10.000	= 2387.0				= 2387.0				= 2387.0				= 2387.0			
		RUDDER = BDFLAP = R-ELVN =	۵				a.				C				۵			
FLAP UP			594.81				594.81				594.81				594.81			
-973-1) ORB BODY			•	,			0				e G				•			
PRESSURE DATA - 0A148 (AMES 11-973-1 AMES 11-073(0A148) -140A/8/C ORB B		1076.5800 IN. XO .0000 IN. YO 375.0000 IN. ZO	-7.852 MACH55656	DEPENDENT VARIABLE CP			-3.843 MACH = .59666	DEPENDENT VARIABLE CP			.:89 MACH = .59566	DEPENDENT VARIABLE CP			4.269 MACH = 59666	DEPENDENT VARIABLE OF		
CATE 13 FEB 76 TABULATED PF	PETERNOE DATA	SANTA = 8700.0000 90.FT. XMRP = 10° LASE = 974.7900 1N. YMRP = 10° BASE = 920.4780 1N. ZMRP = 3° SC41E = 020.4780 1N. ZMRP = 3°	A_PHA (1) = -5,949 BETA (1) =	ABRICA COBCI 1 WOLLDER	09m0'1 0810'1 87 K	7.1 .00030843083 . .00003380	A_PM4 (1) 43.933 BETA (2) =	REGION (1) BODA FLAD GARAGE	1,0150 1,0463	1805 1808 1806. 1806 1808 1806. 1806 1806 1806.	ALPLA (1) = -3.929 BETA (3) =	SECTION (1)BODY FLAP UPPER	X _ 3 1.0.80 1.0460	145 1500 - 13029 - 18915 1000 - 13127 - 13354	ALP-A 1 1) = -3.935 BETA (4) =	RECTOR : 1.980EV FLAB GRADER	1.0180 1.0460	555 - 3081 - 8335 - 000 - 3149 - 3335

ORIGINAL PAGE IS OF POOR QUALITY

 t_l

ALPHA (1) = -3.949 BETA (5) = SECTION (1) 8000Y FLAP UPPER X/L3 Y0.00030093115 40.0003009 TLAP UPPER X/LB Y1.0460 FH; SECTION (1) 8000Y FLAP UPPER X/LB Y0.00031763433 ALPHA (2) = .055 BETA (2) = SECTION (1) 8000Y FLAP UPPER X/LB X/LB Y0.00031763433 ALPHA (2) = .055 BETA (2) = SECTION (1) 8000Y FLAP UPPER X/LB X/LB Y0.00031763433 ALPHA (2) = .055 BETA (2) = SECTION (1) 8000Y FLAP UPPER	PRESSURE DATA - 0A148 (AMES 11-073-1) AMES 11-073(0A148) -140A/A/C CRB BOD B.334 MACH = .59556 0 DEPENDENT VARIABLE CP DEPENDENT VARIABLE CP -3.864 MACH = .59628 0 DEPERDENT VARIABLE CP	1-073-1) CRB BODY FLAP UP 0 = 594.81 0 = 593.97	F = 2385.4	PAGE 5714 70) RW/L = 4.8452
	.180 MACH * .59628 DEPENDENT VARIABLE CP	0 • 593.97	e 2386	RN/L F F. B452
3023390 3023390 303390 1.0:80 1.0+60 30462995 30462395	4.251 MACH * .59628 DEPENDENT VARIABLE CP	593.97	a 538€2. ■	FN/: # 50

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SATE 13 FEB 78	PRESSURE DATA - DATH8 (AMES 11-073-1)	1-373-1			OY C	PAGE 57.5
	AMES 11-073(0A148) -140A/B/C	CRB BODY FLAP UP		(CEBETD)		
# (8) #136 190 # .8. the t	8.305 MACH ≈ .59628	Q ≈ 593.97	a	₽ 2385.4	* 7.8	4,8452
SECTION (1) BODY FLAP UPPER	DEPENDENT VARIABLE CP					
034011 081011 B37/K						
H4 .00. .00.04 .00.04						
ALPHA (3) = 0.000 BETA (1) =	-7.898 MACH ≈ .59578	a = 593.03	Ω	₹383.8	1/8 1/8	\$ &
SECTION (1:800% FLAP UPPER	DEPENDENT VARIABLE CP					
x/LB 1.0180 1.0480						
146 1865 - 1865 - 1860 1861 - 1865 - 1860						
ALPHA (3) = 4.002 SETA (2) =	-3.661 MACH = .59578	g = 593.03	Ţ	= 2385.8	.1/28	4.0455
BBdd0 dWT3 /GOB(1) NOTLOBS	DEPENDENT VARIABLE CP					
X/LB 1.0180 1.0480						
3108 1818 000.04 8088 7808 000.04						
ALPHA (3) = 4,000 BETA (3) =	.182 MACH = .59578	0 = 593.03	۵	= €38€.8	1/2	4.8456
d3ddn df73 kace(1) Noilo38	DEPENDENT VARIABLE CP					
X/LB 1.0180 1.0460						
1505 1505.						
ALPHA (3) = 4,003 BETA (4) =	4.239 MACH * .59578	g = 593.03	a	* 2385.8	1/2	£ . 8-55
SECTION () BODY FLAP UPPER	CEPENDENT VARIABLE CP					
X/LB 1.0190 1.0450						
1452 - 0702 - 000 000 - 3083 7000 - 3083						

ड: इ. उरुट	(XEBFTD)	m m m m m m m m m m m m m m m m m m m				7/88 × 7/88				88 8 7 * TXE T			EN/: 1.8-62				2876 a # 1/76 a			
	SES:	₩ 2396.8				± 2396.¥				₹ 5386.*			± 2386.⊭				* 2386.4			
3-1)	CRB BODY FLAP UP	= 593.03 P				≠ 593.97 P				≠ 593.97 P			= 593.97 P				= 593.97 P			
PRESSURE DATA - 0A148 (AMES 11-073-1)	AMES 11-073(0A148) -140A/B/C ORI	8.292 MACH = .55578 Q	DEPENDENT VARIABLE CP			-7.890 MACH = .59630 Q	DEPENDENT VARIABLE CP			-3.860 MACH = .59630 0	DEPENDENT VARIABLE CP		.181 MACH = .59630 0	SEPENDENT VARIABLE CP			4.234 MACH = .59630 Q	DEPENDENT VARIABLE CP		
CATE 13 FEB 78 . TABULATED PF		ALPEA (3) 4 (5) 9 (5) 9 (5) 9	SECTION THROUGH FLAB LARER	5640.1 0818.1 BIXX	FE.;	ALPHA (4) = 7.945 SETA (1) =	SECTION (1) BODY FLAP UPPER	X/LB 1.0460	3732 - 8142 - 335 - 51 5732 - 8142 - 535 - 51	ALPLA (2) = 7,956 BETA (2) =	SECTION : 1.300Y FLAP UPPER	034011 081011 E7/X	 ALPHA (4) = 7.955 BETA (3) =	SECTION (1)BODY FLAP UPPER	CS+C:1 CB:0:1 67/K	145 145 145 145 145	ALPUA (9) # 7,955 BETA (9) =	SECTION : INBOUN FLAP UPPER	X/28 1.0180 1.0450	2802'- 48'E'- 300'- 1ma

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DATE 13 FEB 76 TABULATED P	PRESSURE DATA - CA148 (AMES 11-073-1	-073-1)			Q.	PAGE 5717
	AMES 11-073(0A148) -140A/B/C	CRB BODY FLAP UP		(XE8F70)		
ALPHA (4) = 7.954 BETA (5) =	8.280 MACH = .59630	0 = 593.97	Q.	₽ 2386.4	RN/L	* + .8+82
SECTION : 1180DY FLAP UPPER	DEPENDENT VARIABLE CP					
X7LB 1.2150 1.0460						
PH1 .000 - 3205 - 3399 .40.500 - 2056						
ALPHA (5) = 11.925 BETA (1) =	-7.848 MACH = .59584	0 593.15	۵	= 2386.7	RN/L	#. B+34
SECTION (1)BODY FLAP UPPER	DEPENDENT VARIABLE CP					
X/LB 1.9380 1.6460						
PH: .30031533255 40.80032553548						
ALPHA (5) = 11,342 BETA (2) =	-3.851 MACH = .59584	0 = 593.15	۵	= 2386.7	PRV/L	# 4.8434
SECTION (1:800Y FLAP UPPER	DEPENDENT VARIABLE CP					
X/LB 1.0190 1.0460						
PH1 . GC7303-93G92 .40.0003122272						
ALPHA (5) = 11.947 BETA (3) =	.182 MACH = .59584	0 = 593.15	۵.	- 2386.7	NA T	#5#8.4 =
SECTION (11800Y FLAP UPPER	DEPENDENT VARIABLE CP					•
X713 1.0:85 1.0460						
PH: .00030+02997 +0.30029053125						
ALPHA (5) = 11.942 BETA (4) =	4.245 MACH = .59584	0 * 593.15	Q	- 2386.7	EN/L	= 4.843.
SECTION (1) BCDY FLAP UPPER	DEPENDENT VARIABLE CP					
X/LB 1.018C 1.0460						
PHI .dcc3198 .c.dcc3753158						

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TABULATED PRESSURE DATA - DAI48 (AMES 11-073-1) CATE 13 FEB 76 ORB BODY FLAP UP

AMES 11-073(0A148) -140A/B/C

8.309 MACH = .59584 DEPENDENT VARIABLE CP BETA (5) = ALPHA (5) # 11.935

1.0180 1.0460 X/LB

SECTION (1)BODY FLAP UPPER

-.3222 -.3368 -.2883 -.3110 PH1 .000 40.000

(XE8F70) 2386.7

PAGE 5718

* 4.8434

RN/L

= 593.15

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TABULATED PRESSURE DATA
76
634
ņ
0.4.1 Pi

05 AUG 75) (XE8F71) (PARAMETRIC DATA ORB BODY FLAP UP AMES 11-073(CA148) -140A/B/C REFERENCE DATA

- 0A148 (AMES 11-073-1)

PAGE 5719

2.9096 SPDBRK = L-ELVN = MACH = PA L 439.47 -5.000 16.300 -10.600 RUDDER : BOFLAP : R-ELVN = ٥ 600.47 = 1.3971 MACH = 1076.6800 IN. XO = .0000 IN. YO = 375.0000 IN. ZO -3.857 #/ =/ XMRP YMRP ZMRP **BETA** 2690,0000 SQ.FT. 474.8000 IN. 936.0580 IN. -3.946 A_PHA (1) = SCATTE SC

DEPENDENT VARIABLE CP SECTION (1) BODY FLAP UPPER -.3382 1.0180 1.0460 -.3512 900.04 40.000 ï X 'LB

439.47 * 600.47 O = 1.3971 DEPENDENT VARIABLE CP .190 MACH # (2') BETA SECTION (1)BODY FLAP UPPER 1.0180 1.0469 ALEHA (1) = -3.940 X/LB

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* 600.47 0 * 1.3971 4.272 MACH 3 BETA -.3421 -.3328 -.3594 -.3549 ALPHA (1) = -3,945 000.0+

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439.47

DEPENDENT VARIABLE CP SECTION (1) BODY FLAP UPPER 1.0180 1.0450 -.3410 -.3394 -.3444 -.3391 .000 40.000 E1/X Ī

O DEPENDENT VARIABLE CP MACH -3.873 9ETA SECTION (1)BCOY FLAP UPPER 1.0189 1.6453 .015 # () YHGT A/LB

2.9088

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439.47

600.47

-.3550 .000 40.000 1922

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CATE 13 FEB 76 TABULATED	FRESSURE DATA - OAL48 (AMES 11-073-1)	1-073-1)		PAGE 5720
	ANES 11-073(DA148) -140A/B/C	ORB BODY FLAP UP	(XEBF71)	•
A_PHA (2) = .022 BETA (2) =	.180 MACH = 1.3971	Q * 600.47 P	= 439.47	RN/L - 2.9088
SECTION (1'BODY FLAP UPPER	DEPENDENT VARIABLE CP			
X/LB 1.0180 1.0460				
PHI .00034513363 40.00036963711	entie t., ge			
ALPHA (2) = .018 BETA (3) =	4.248 MACH = 1.3971	Q = 600.47 P	139,47	FN/L = 2.9088
SECTION (1)BODY FLAP UPPER	DEPENDENT VARIABLE CP			
X/L9 1.0180 1.0460				
PH! .00035653598 -0.00036103503				
ALPHA (3) = 3.951 RETA (1) =	-3.877 MACH = 1.3961	0 = 600.56 P	* 440.18	RN/L = 2.9092
SECTION (1)BODY FLAP UPPER	DEPENDENT VARIABLE CP			
X/LB 1.0180 1.0450				
PHI .00035653421 40.00038273889				
ALPHA (3) = 3.952 BETA (2) =	.179 MACH = 1.3961	0 * 600.56 P	= 440.18	RN/L = 2.9092
SECTION (1) BODY FLAP UPPER	DEPENDENT VARIABLE CP			
K/LB 1.0180 1.0460				
020°9+ 200°9+ 190°9- 19				
ALPHA (3) = 3.956 BETA (3) =	4.242 MACH = 1.3961	0 = 600.56 P	* 440.18	RN/L = 2.9092
SECTION (1) BODY FLAP UPPER	DEPENDENT VARIABLE CP			
7/LB 1.0180 1.0450				
PH1 .00036413662 .000035743679			,	

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CATE 13 FEB 75 TABU	TABULATED	PRES SURE	DATA -	PRESSURE DATA - DAIMB (AMES 11-073-1)	11-073-	_					ď	PAGE 5721	Ę.
		AMES 11	-07310A	AMES 11-073(0A148) -140A/B/C		30DY F	ORB BODY FLAF UP			(XE8F71)			
ALPHA (4) = 7,1/37 BETA (= (1)	-3.873	MACH	-3.873 MACH = 1.3969	O	H	600.27	۵	*	439.47	RN/L	in H	2.9090
SECTION . INBODY FLAS UPPER		DEP	INGCN	DEPENDENT VARIABLE CP									
X/LB 1.0180 1.0460													
741 .00036093488 .000.04													
ALPHA (4) = 7.995 BETA ((S) #	177.	MACH	* 1.3969	a	Ħ	600.27	۵	*	439.47	RN/L	તાં •	2.9090
SECTION (1)BODY FLAP UPPER		DEP	ENDENT	DEPENDENT VARIABLE CP									
X/L9 1.0180 1.0460													
PH; .00036203513 -0.00038413877													
ALPHA (박) = 7.992 BETA (3) =	4.237	MACH	= 1.3969	ø	y	600.27	Q.	*	439.47	RN/L		2.9090
SECTION (1)BODY FLAP UPPER		059	ENDENT	DEPENDENT VARIABLE CP									
X/LB 1.0!83 1.0%60													
PH: .33036553641 40.00037653785													
ALPHA : 5) = 11.960 BETA (-3.861	MACH	* 1.3964	0		600.16	۵	*	439.71	PR/L	رن •	2.9137
SECTION (1:800Y FLAP UPPER		GEO	NDENT	DEPENDENT VARIABLE CP									
X/LB 1.0180 1.0460													
PH1 .00037213690 .00037543695													
ALPHA : 5) = 11.969 BETA ((5) =	.177	.177 MACH	= 1.3964	ø		600.16	۵.	*	439.71	RY.L	ni #	2.9137
SECTION (1)BODY FLAP UPPER		DEP	INGCN	DEPENDENT VARIABLE CP									
X/LB .1.0180 1.0450													
PH1 .00035453485 40.000372: -				,									

2	RN/L = 2.9137				RN/L = 2.9185				RN/L = 2.9185				RN/L = 2.9185			
(XE8F71)	= 439.71				- 440.18				· ++0.18				■ 440.18			
	C				Q				•				۵.			
Y FLAP UP	= 600.16				* 600.45				= 600.45				= 600.45			
RB 800													•			
ڻ ه	ø				O				O				0			
AMES 11-07310A148) -140A/B/C ORB BODY FLAP UP	4.251 MACH = 1.3964	DEPENDENT VARIABLE CP			MACH = 1,3960	DEPENDENT VARIABLE CP			MACH ≈ 1.3960	DEPENDENT VARIABLE CP			MACH = 1.3960	DEPENDENT VARIABLE CP		
AMES 11-0	4.251	LEPEN		ur water	-3.840	DEPEN			. 180	DEPEN			4.280	DEPEND		
	= (£)								(2) =				# 6			
	BETA	UPPER	,+E0	+97 381	BETA	UFPER	+60	536 171	BETA	UPPER	990	65 65 65	BETA (UPPER	50	Çı :
	11.967	FLAP	1.0180 1.0460	33497 3981	15.903	FLAP	1.0180 1.0460	3536 1 - 4071	15.917	FLAP	- 2.1	3593	15.910	FLAP	1.9	3542
	ĸ	1) 800	1.0180	3623 3909		1) 800)	1.0180	3514	ii.	11800	1.0190 1.0460	3717		1.9004	1.0180 1.0+50	3597
	ALPHA (5)	SECTION (1) BODY FLAP UPPER	X/LB	PH1 .000 .000	ALPHA (6)	SECTION (1)BODY FLAP UPPER	X/FB	PH: .250 40.370	ALPHA (5)	SECTION (1) BODY FLAP UPPER	אירם	PH1 . 660 . 40. 630	ALPHA (5) =	SECTION (1) BODY FLAP UPPER	x 1/ 3	17d

PAGE 5722

TABULATED PRESSURE DATA - DAI+8 (AMES 11-073-1)

DATE 13 FEB 76

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DATE :3 FEB 76	TABULATED P	RESSURE I	DATA - (RESSURE DATA - 04148 (AMES 11-073-1	11-073-	1)					4	PAGE 5723	
		AMES 11-1	173(041	AMES 11-073(0A148) -140A/B/C		BODY 1	CRB BODY FLAP UP		ιχΕ	(XE8F72)	(05 /	05 AUG 75	_
REFERENCE DATA	æ								PARAMETRIC	RIC DATA	_		
SPEF = 2699.0000 SD.FT. LAEF = 474.9000 IN. BPEF = 955.0680 IN. SCALE = .0300	XM3P = 10.	.0000 .0000 375.0000	IN. X0 IN. Y0 IN. Z0					RUDDER = BDFLAP = R-ELVN =	-5.000 16.300 -10.000	SPOBRK 10 L-ELVN 10 MACH	# # # Æ 5	55.000 -10.000 1.250	000
ALPHA (1) = -3.944 BETA	TA (1) =	-3.854	MACH	= 1.2471	o	H	599.40	۵	= 550.63		RN/L	3.0058	28
SECTION (1)BODY FLAP UPPER	٥r	DEPE	DENT V	DEPENDENT VARIABLE CP									
X/LB 1.0:80 1.0460													
PH1 .03038353752 40.0004100													
ALPH4 (1) = -3.937 BETA	TA (2) =	. 190	MACH	= 1.2471	o	#	599.40	Q.	= 550.63		J/NS	= 3.0058	28
SECTION : 1780DY FLAP UPPER	٥r	DEPE	NDENT V	DEPENDENT VARIABLE CP									
X/L8 :.0180 :.0450													
PH1 .03037083589 40.00032283892													
ALPHA (1) = -3.943 BETA	TA (3) ≠	4.266	"ACH	1.2471	0	H	599.40	Q.	= 550.63		RN/L	3.0058	8
SECTION (1)BODY FLAP UPPER	œ	OEP5	DEPENDENT VARIABLE	ARIABLE CP									
X7L9 1.0180 1.0460													
FH1 .00038443882 40.00033303777													
ALPHA : 2) = .045 BETA	TA (1) #	-3.865	MACH	= 1.2470	o	*	599.89	۵	= 551.11		RN/L	= 3.0108	8
SECTION (1:800% FLAP UPPER	œ	DEPE	CDENT V	DEPENDENT VARIABLE CP									
X/LB 1.8180 1.6450									~ *				
PH1 . 200 3909 3842 90.030 1541 4566									1	: "			

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DATE 13 FEB 75 TABULATED PRES	PRESSURE DATA - DAIWB (AMES 11-073-1)	-073-1				-	PAGE 57,25	K.
AME	AMES 11-073(0A148) -140A/B/C	ORB BODY FLAP UP	a a		(XEBF72)	(2)		
Albua (4) = 7.933 BETA (1) = -3	-3.872 MACH = 1.2470	Q = 59	599.90	۵.	551.11	RN/L	 W	3.0127
SECTION (1780DY FLAP UPPER	DEPENDENT VARIABLE CP							
X7L9 1.0180 1.0450								
H9 1900 - 14132 - 14005 1900 - 14347 - 14385								
ALPHA (4) = 7.940 BETA (2) =	.173 MACH = 1.2470	65 + 59	599.90	c.	* 551.11	RN/L	w.	3.0127
SECTION (1)BCDY FLAP UPPER	DEPENDENT VARIABLE CP							
X/LB 1.0;80 1.0460								•
PK1 .00041334075 40.0004365								
ALPHA (4) = 7.943 BETA (3) = 4	4.236 MACH = 1.2470	0 = 59	599.90	Q .	551.11	RN/L	m.	3.0127
SECTION (1)BODY FLAP UPPER	DEPENDENT VARIABLE CP							
X/LB 1.0180 1.0460								
18984 7814 300.04 5554 8884 300.04		,						
ALPHA : 5) = 12.023 BETA (1) = -3	-3.855 MACH = 1.2460	0 = 59	599.73	۵	551.81	RN/L	# E	3.0130
SECTION (1) BODY FLAP UPPER	CEPENDENT VARIABLE CP							
C3+C-1 C8:C:: 67/X								
149 1000 - 14215 - 1113 10000 - 14558								
ALPHA (5: = 12,037 BETA (2) =	.182 MACH = 1.2460	85 * 59	599.73	۵	= 551.81	PN/L	w.	3.0130
SECTION (1)800Y FLAP UPPER	DEPENDENT VARIABLE CP							
X/LB 1.3180 1.2460								
#1## \$85# \$30.0# #5.000 - #113 - #83# #5.000 - #283#								

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RN/L = 3.0130 1XE8F72) 551.91 ٥ AMES 11-073(0A148) -140A/B/C ORB BODY FLAP UP = 599.73 TABULATED PRESSURE DATA - DAIHB (AMES 11-073-1) o 4.249 MACH = 1.2460 DEPENDENT VARIABLE CP BETA (3) = SECTION 1 19807 FLAP UPPER A. Pug (5) = 12.032 37 E :3 FEB 76

1.0180 1.0460 -.4118 -.4094 -.4352 -.4453 PHI .000 40.000 w.v.

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DATA
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CATE 13 FEB 75 TABUL

1 D5 AUG 75) PAGE BT27 PARAMETRIC DATA (XEBF73) CRB BODY FLAP UP AMES 11-07310A148) -140A/B/C REFERENCE DATA

3.:830 3.1821 SPDSRK 1-ELVN # * Ž ž Ž ₹ 16.833 10.833 708.37 16.707 19.707 707.91 RUDDER = BOFLAP = R-ELYN = ۵ **=** 600.53 600.53 **=** 600.53 599.94 G O = 1.1008 -3.859 MACH = 1.1000 -3.850 MACH = 1.1008 4.255 MACH = 1.1008 DEPENDENT VARIABLE CP DEPENDENT VARIABLE CP DEPENDENT VARIABLE CP MACH 1076.6839 IN. XO .0009 IN. YO 375.0000 IN. ZO 190 BETA (!) = # (; ; ။ ဂ် SETA ALPHA (11 = -3.950 BETA .C+7 BE7A SECTION / DECOMPLAP UPPER SECTION (11803Y FLAP UPPER SECTION (1)BODY FLAP UPPER 8999.0000 80.FT. 474.8000 1N. 988.0880 1N. - , 4300 - , 3955 1.0180 1.0460 1.0180 1.0465 -.3974 -.3948 -.3872 -.3886 1.0380 1.0460 -.4194 -.4130 -.4273 -.4397 ALPHA (1) = -3.958 ALPHA : 11 = -3.953 -,4324 -,5357 ALPHA (2) = - 600 - 600 - 600 0 0 0 0 0 0 0 000 000 000 000 <u>.</u> ī #/₽@ 6) X X/LB

1.0180 1.0450

SECTION FINEDOY FLAP UPPER

DEPENDENT VARIABLE CP

-,4218 0.484.1 1.4309 000.04 #0.000

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PAGE 5728		3.1度30				3.1830				3.1903				■ 3.1803				= 3.1803			
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•	ORB BODY FLAP UP	£ 599.54				593.9				s 599.99				* 599.99			'0	≥ 599.99			
1-073-	048 S	0				_				a				o				0			
PRESSURE DATA - DAIMB (AMES 11-073-	AMES 11-073(0A148) -140A/B/C	.177 MACH = 1.1006	DEPENDENT VARIABLE CP			4.245 MACH = 1.1000	DEPENDENT VARIABLE CP			-3.872 MACH = 1.0998	DEPENDENT VARIABLE CP			.182 MACH = 1.0998	CEPENDENT VARIABLE CP			4.238 MACH = 1.0998	DEPENDENT VARIABLE CP		
TABULATED P		(5)				: 3) #				# (1)				(S) #				# 12			
CATE 13 FEB 76 TAS		ALPHA (2) = (52 BETA	SECTION (1780DY FLAP UPPER	X-L3 1.0180 1.0460	145 1850 - 14085 - 14036 18187 - 18175	ALPHA (2) = 046 BETA	SECTION (1) BODY FLAP UPPER	X/LB 1.0180 1.0450	747 2007 - 19329 - 1933.34 46.603 - 1885 003.34	A_PHA (3) = 4.012 BETA	SECTION (1)BODY FLAP UPPER	X/L3 1.0180 1.0460	1933 - 1933 - 1933 1937 - 1933 1931 1931 1931 1931 1931 1931 1931	ALPHA (3) = 4.014 BETA	SECTION (1) BODY FLAP UPPER	1.0183 1.0463	\$155'- 2055'- 000'05 5025'- 1125'- 000' 18d	ATOM 600 4 4 6 4 449 5	BECTION (1) BCD FLAN FLAN	X.1.8 1.0180 1.0450	##G 100 - 10

TABULATED	D PRESSURE DATA - CAIH8 (AMES 11-073-1	1-073-1		367:	62_3 3
	AMES 11-073(CA148) -140A/B/C	SPB BODY FLAP UP	(£1363X)	(2)	
Alfaq (4) = 7.878 827A (1)	= +3.959 NACH = 1.1000	Q # 599,94	P + 708.38	* 1/2 g	3.1794
SECTION (1)8000 FLAG UPPER	DEPENDENT VARIABLE CP				
000000000000000000000000000000000000000					
8354 5854 000.04					
ALPHA (4) = 7.984 BETA (2) =	* 1.174 MACH = 1.1000	96.59€	P = 708.36	5 PW/L =	3.1.3
SECTION : 1980BY FLAG UPPER	DEPENDENT VARIABLE CP				
09-01 CS101 1 ET/X					
019x'+ 920x'+ 000'0x 614x'+ 90xx'- 000'0x (He					
# 18 1 # 138 # 851# 1 33 #	= 4.233 МАСН = 1.:000	2 ≠ 599.94	P 728.35	*	₽.:.79
BERRY FLOREST FOR FRANCES	DEPENDENT VARIABLE CP				
X/La 1.0780 1.0450					
26887 - 66887					
= (1) 4 138 780.51 = (8) tHq_t	= -3.848 MACH = 1.0997	0 ≠ 599.84	p = 708.53	* : : : : : : : : : : : : : : : : : : :	3.1.785
SECTION (1980BY FLAP UPPER	DEPENDENT VARIABLE CP				
C9#0*1 C8(0*1 E7/X					
6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6					
ALPHA (5) = 12.077 BETA (2) =	* .:80 MACH * 1.0997	G ≈ 559.6+	P 728_61	Ž	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
SECTION FIRSON FLAP UPPER	DEPENDENT VARIABLE CP				
25.E3 1.0452					
17.00 (1.00					

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CHB SODY FLAP UP AMES 11-073(0A148) -140A/9/C

. 599.84 O 4.245 MACH = 1.0997 # (5) # 12.075 BETA (3) #

DEPENDENT VARIABLE CP

-,4586 -,4759 -,4586 -,4783 1.0180 1.0483 () ×

83440 4474 8008.1 . NO1_035

(XEBF73) 108.83

3.1785

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		1-073-1	-		2	PAGE 5731
DATE 13 FEB 75	٠.		,.		•	
	AMES 11-073(0A1	ORB BODY FLAP UP	•	(XE8F74)	_	05 AUG 75 3
ATAC PONTOCRE	•			PARAMETRIC DATA	DATA	•
בייני			- 6	1	* XOBUGE	55,000
382F = 2690.0000 SO.FT. XMRP 362F = 474.8000 IN. YMPP \$38.0580 IN. ZMRP \$628 F = 055.0580 IN. ZMRP	= 1076.6800 lN. x0 = 0000 lN. x0 = 375.0000 lN. Z0		ROWER = BOFLAP = R-ELVN =	16.300	L-ELVN	-10.000
٠.	1) = -3.854 MACH = .90080	09.009 1 0	۵	- 1057.3	RN/L	= 3.5738
SECTION (1)BODY FLAP UPPER	DEPENDENT VARIABLE CP		••••			
X/LB 1.0190 1.0450						٠
145 - 1587 - 15920		·				
	2) = .189 MACH: = .90080	0 = 600.60	Q.	= 1057.3	RN/L	3.5738
SECTION (1)BODY FLAP UPPER	DEPENDENT VARIABLE CP					•
0940'1 0810'1 ET/X						
PH: .300 297: 3092 +0.003 316:						
1) = -3.951 BETA (3) = 4.256 MACH = .90080	0 = 600.60	۵.	= 1057.3	RNL	3.5738
SECTION (1) BOOY FLAP UPPER	DEPENDENT VARIABLE CP					
X/LB 1.0180 1.0460						
PHI .000 - 3555 - 03591 .00.00 - 2761 - 5910						
ALPHA (21 = .055 BETA (1) = -3.868 MACH90127	0 - 600.67	۵.	■ 1056.4	78 1	3.5726
SECTION (1)300Y FLAP UPPER	DEPENDENT VARIABLE CP					
X/LB 1.6180 1.0460						
PH: .00329152850 +0.00030593259						

5732		3.5726			3.5726			3.5771			3.5771				3.5771					• •	
PAGE	ñ	*													R	7					e e
		RN/L			RN/L			FN/L		·	RN/L	•			RN/L					· .	
	(XE8F74)	056.4			4.0			ري ن			9.9				9.6	•					111
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1-073-1	ORB BODY	æ			ø			. O .			g			· · · · · · · · · · · · · · · · · · ·	ø						
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AMES	-140A/B/C	.90127	S		.90127	B		30140	<u>ව</u>		04106	9			90140	8 14				· · · · · · · · · · · · · · · · · · ·	* * * * * *
148		-	VARIABLE			VAR I ABLE			VARIABLE			IABL				3 ABL			***		
- 0A148	AMES 11-073(0A148)	去			3			₹.			MACH	T VARI			£	T VAF					
DATA	073(MACH	DEPENDENT		HACH	DEPENDENT		MACH	DEPENDENT			DEPENDENT			ž	DEPENDENT					,
PAFSSIME DATA	5 11-	. 180	3430		4.248	DEPE		3.875	DEPE		. 183	9			.245.	DEP				٠.,	
PAFG	AME				#			<u>.</u>			ż				J				*		
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		ę	LAP UP	3040	058	1.0460	3171	5	LAP UP	2973 3234	9	LAP 1	1.0450	-,2979	10	LAP	1.0450	- 3210		•	•
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2 2 2		S)	NO.	000	(S)	SECTION (1)BODY FLAP UPPER (7LB 1.0180 1.0460	000	33	SECTION (1)BODY FLAP UPPER (/LB 1.01B0 1.0460	₽H1 . 303 40.000	33	SECTION (1)800Y FLAP UPPER		PH1 .000 +0.000	1.1 3)	SECTION (1) BODY FLAP UPPER		PH1 000 000			
St. Gran	i	A. PHA	SECTION X/LB	PH1 .000 .40,000	ALPHA (SECT	PH1 .003 .40.060	ALPHA (SECT X/LB	王 · 字	ALPHA (SECT	x/LB	# 6.	ALPHA C	SECT	X/LB	H G	•		

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TABULATED PRESSURE DATA - GAINB (AMES 11-073-1)

ORB BODY FLAP UP

AMES 11-073(0A148) -140A/B/C

9015 BETA (3) SECTION (1)BODY FLAP UPPER ALPHA (5) = 12.054

1.0180 1.0460 X/LB

PAGE 5734

TABULATED PRESSURE DATA	SSURE DATA - 04148 (AMES 11-073+1	1-073-1	i			PAGE 5735	
1	-140A/B/C	ORB BODY FLAP UP		(XEBF75)	_	05 AUG 75)	
				PARMETRIC DATA	DATA		
ROFER	Send IN.		RUDDER =	-5.000	SPDBRK =	55.000	
2690.0004.50.7. XMRP = 474.8000.1N. XMRP = 936.0680.1N. ZMRP =	0000		BOFLAP = R-ELVN =	-10.000	MACH #	.600	
	Suppose a market	0 = 594.32	 a .	= 2386.4	RN/L	= 4.8576	
(1) = -3.999 BETA (1) =	-7.854 MACH #						
SECTION (1) BODY FLAP UPPER	DEPENDENT VARIABLE CP						
K.0180 1.0450							
Ę			*				
75-25 TS05. + T00. O+ T00.					Š	1 B576	
1, PHA (1) # -3.939 BETA (2) =	-3.848 MACH = .59648	0 = 594.32	٥.	= 2385.4	N. T.		
SECTION 1 1 SCOY FLAP UPPER	DEPENDENT VARIABLE CP						
1.0180 1.0460							
3235	č	G * 594.32	<u>o</u> .	= 2385.4	RN/L	₹ 4.8576	
ALPHA (1) = +3.938 BETA (3) =	.187 MACH = .23040						
SECTION (1) BODY FLAP UPPER	DEPENDENT VARIABLE CP						
1.0180 1.0450							
1, 1956							
900 309 000.04			. 8	4 202C	I NG	× 4.8576	
A_P-A (E) = -3.926 BETA (4) =	4.266 MACH = .59648	25. ± 59€. 37	L.	F .080.0	٠.,		
SECTION (1) BODY FLAP UPPER	DEPENDENT VARIABLE CP						
1.0180 1.0460							
PH1 .00028062860							

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DATE 13 FEB 76 TABULATED	TABULATED PRESSURE DATA - OAI48 (AMES 11-073-1	-073-1)		PAGE 5736
	AMES 11-073(0A148) -140A/B/C	ORB BODY FLAP UP	(XEBF75)	
ALPHA (1) = -3.541 BETA (5) =	8.332 MACH = .53648	0 = 594.32	₽ 2385.4	RN/L = 4.8576
SECTION : 1380DY FLAP UPPER	DEPENDENT VARIABLE CP			
X/LB 1.0180 1.0460				
1991 - 19973 - 1931 1000 - 19973 - 19931 1900 - 19979				
ALPHA (2) = . C43 BETA (1) =	-7.863 мАСН = .59624	0 = 593.85	P = 2386.3	RN/L = 4.8579
SECTION I 1) BODY FLAP UPPER	DEPENDENT VARIABLE CP	•		
X/LB 1.0180 1.0460				
PH; .00025972954 +0.0003:053332		e de vers		
ALPHA (2) = .091 BETA (2) =	-3.863 MACH = .59624	0 = 593.85	P = 2386.3	RN/L = 4.8579
SECTION (1) BODY FLAF UPPER	DEPENDENT VARIABLE CP			
X/LB 1.018C 1.0460				
FH1 .00027652650 +0.00029563169				
ALP44 (2) = .092 BETA (3) =	.181 MACH # .59524	0 = 593.85	p * 2386.3	RN/L = 4.3579
SECTION (1)800Y FLAP UPPER	DEPENDENT VARIABLE CP			
X/L9 / 1.0180 1.0460				
PH! .03527652725 .43.03528853350				
ALDUA (2) = .077 BETA (4) =	4.247 MACH = .53624	0 = 593.85	P = 2386.3	RN/L * 4.8579
SECTION (1) BODY FLAP UPPER	DEPENDENT VARIABLE CP		•	
X.LS 1.6180 - 1.6460				
PHI .000 - 2816 - 2963 -000 - 2875 - 2819				

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A DIE HAFI	PRESSURE DATA - 0A14B (AMES 11-073-1	-073-1)		PAGE 5737	
	ANES 11-07310A148) -140A/B/C	ORB BODY FLAP UP	(XE	(XEBF75)	
ALPHA (2) = .073 BETA (5) =	8.305 MACH ≈ .59624	0 = 593.85	p = 2386.3	3 RN/L = 14.8579	D
SECTION (1) BODY FLAP UPPER	DEPENDENT VARIABLE CP			ne njemenjage i Nari	
X7EB 1.0180 1.0460			,	***************************************	
PH1 ,00029263023 40.00026272813				nga kanga atau aya m	
ALPHA (3) = 4.023 BETA (1) =	-7.904 МАСН = .59 0	0 = 594.21	P = 2386.5	.5 RN/L = 4.8659	60
SECTION (1) BODY FLAP UPPER	DEPENDENT VARIABLE CP			*** *** ******************************	
X.LS 1.0150 1.0460				arrana (roz	
PHI 				, description (A), description	
iñ	-3.864 MACH # .59640	0 = 594.21	P = 2385.5		8659
6	DEPENDENT VARIABLE CP		٠.		
X/L3 1.0180 1.0460				W 430 to 1 80 t F	
184 2015 - 8385 - 005 2015 - 4795 - 600 F4				LANDE PARSADE IN IT	
# # 66	.177 MACH = .59640	15.492 = 0	P * 2386.5	.5 RN/L = 4.8659	929
SECTION (1)BODY FLAB UPDER	DEPENDENT VARIABLE CP			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
X/23 1.0180 1.0450				10 5 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
FF1:					
4 (+) 4 ETA (+) #	4.240 MACH = .59540	0 = 594.21	P # 2386.5	FEET 1 4	.8659
SECTION (1) BODY FLAP UPPER	DEPENDENT VARIABLE CP			Ze 1981/41	
XXLE 1.0180 1.0450				رد، حصي	
149 200 - 1895 - 000 100 - 1895 - 000 0 1					

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DATE : 3 FEB 76 TABULATI	TABULATED PRESSURE DATA - DAI48 (AMES 11-073-1)	1-073-1		PAGE 5738	
	AMES 11-073(0A148) -140A/B/C	ORB BODY FLAP UP	(XEBF 75)		
ALPHA (3) = 4.917 BETA (5)	# 8.288 MACH # .59640	0 = 594.21 P	= 2386.5	ECGS. + = T/NH	
SECTION (1)BODY FLAP UPPER	DEPENDENT VARIABLE CP				
X/L3 1.0180 1.0453					
1H9 100 - 3035 - 3065 100 - 4035 - 000.04	1.2		•		
AZPHA (4) = 7.959 BETA (1)) = -7.893 MACH # .59626	g = 593.97 P	2396.7	RN/L = 4.805/	
SECTION (1) BODY FLAP UPPER	DEPENDENT VARIABLE CP				
X/LB 1.0180 1.0460					
.05029303020 .00.0031283397					
ALPUA (4) # 7.971 BETA (2)) = -3.863 MACH * .59626	Q = 593.97 P	= 2386. 7	COST - H TONE	
SECTION (1) BODY FLAP UPPER	DEPENDENT VARIABLE CP				
C3+0:: 0310:: 87/X					
PHI - 4775 4775 1800. - 2000 1818					
2	11 = .178 MACH = .59626	0 = 593.97 P	* 2386.7	RN/L = 4.8557	
SECTION (11900Y FLAP UPPER	DEPENDENT VARIABLE CP				
X/18 1.0180 1.0160					
1HG - 7473 1HG					_
. ~) = 4.235 MACH = .59626	0 = 593.97 P	= 2366.7	RN7L # 4.8657	
SECTION (1) BODY FLAP UPPER	DEPENDENT VARIABLE CP				
XXL3 1.0180 1.0489			,		
1+02;- 3169;- 300;04 1-02;- 7589;- 000;04					

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DATE 13 FEB 75 TABULATED PR	TABULATED PRESSURE DATA + OAIWB (AMES 11-073-1	1-073-1)			Ď.
	AMES 11-073(0A148) -140A/B/C	ORB BODY FLAP UP	•	(XEBF75)	
ALPHA (4) = 8.075 BETA (5) =	8.290 MACH ≈ .59626	0 = 593,97	4	= 2385.7	RN/L
SECTION (1) RODY FLAP UPPER	DEPENDENT VARIABLE CP				
1.0180 1.0450					
PHI .00031033183 40.00026742551					
ALPHA (5) = 11.98+ BETA (1) =	-7.850 MACH = .59638	0 = 594,09	Q.	= 2386.3	1
SECTION (1) BODY FLAP UPPER	DEPENDENT VARIABLE CP				
X/LB 1.018" 1.0460			•		
PHI .000 - 2957 - 2994 40.000 - 3083 - 3290		· · •			
ALPHA (5) = 12.003 BETA (2) =	-3.840 MACH = .59636	0 - 594.09	a.	- 2386.3	PZ/L
SECTION (1)BODY FLAP UPPER	DEPENDENT VARIABLE CP				
X/LB 1.0180 1.0460					
PH1 .00026432712 40.000 - 28373125					
ALPHA (5) = 12,008 BETA (3) #	.180 MACH = ,59636	0 = 594,09	a .	* 2386.3	ž
SECTION (1) BODY FLAP UPPER	DEPENDENT VARIABLE CP				
X/CB 1.0180 1.0450	:				
PH: .0002618 +.2685 45.0032559 +.2657					
ALPHA (51 = 12.057 BETA (4) *	4,244 MACH # .59636	0 = 594.09	ē.	2386.3	1
SECTION (.1) BODY FLAP UPPER	DEPENDENT VARIABLE CP			• .	
X/1.8 1.0180 1.0460					
PH1 .00028773075 +0.00025048671		9.			

- 4.8671

± 4.8657

PAGE 5739

1.7.E

· 4.9671

EE

TABULATED PRESSURE DATA - DAINB (AMES 11-073-1)

DATE 13 FEB 76

PAGE 5740

ORB BODY FLAP UP AMES 11-073(04148) -140A/B/C

± .59536 DEPENDENT VARIABLE CP 8.307 MACH BETA (5) = SECTION (1) BODY FLAP UPPER ALPHA (5) = 12.114

1.0180 1.0460 X7LB

PH1 .000 40.000

-.3109

2386.3

(XEBF75)

574.	i E		000	2.9057				2.9057				2.9057				2.9093			
PAGE	CS AUG		,•																
Δ.	<u>.</u>	DATA	SPOSOK L-ELVN HACH	3/2				FF /				FNA				1/8			
	(XEBF76)	PARAMETRIC	-10.069 -11.700 -10.000	* 440.65				• +40.65				= 440.65				= 1441 B3			
			RUDDER ** BDFL AP ** R-EL VN **	Q.				۵				 a.				£ .⁻			• ,
73-1)	ORB BODY FLAP UP			= 598.57				± 598.57				- 598.57				€ 598.6+			
11-0				O				G.				a				O			.:
PRESSURE DATA - CAINB (AMES 11-073-1	AMES 11-07310A148) -140A/B/C		1076.6800 IN. XO .0000 IN. YO 375.0000 IN. ZO	-3.853 MACH = 1.3930	DEPENDENT VARIABLE CP			.191 MACH * 1.3930	DEPENDENT VARIABLE CP			4.275 MACH * 1.3930	DEPENDENT VARIABLE CP			-3.856 MACH # 1.3913	DEPENDENT VARIABLE CP		
TABULATED P			XXRP = 10 XMRP = 3	2				# fù				(3) =	ē			(1) =			
TA		PEFERENCE DATA	000.FT.	-4.504 BETA	THEODY FLAP UPPER	1.0450	3544 3575	-4.001 BETA	13800Y FLAP UPPER	1.0463	3580	-3.983 BETA	IIBODY FLAP UPPER	1.0456	5 355 5 5 3532	.029 BETA	11800Y FLAP UPPER	1,0460	3520
FEB 76		id di	7650.0000 474.8240 636.0530 0300	1 + 11	r 11805Y	1.0180	3534 3534	. 11	COB(1)	1.0180	1.3511	#	YCOBLE 1	1,0180	-, 3525 -, 3+25	2) ×	118004	1.0180	+,3359 +,3542
CA72 13 F!				ALPHA (1	SECTION	X/:B	PH1 600.0+	ען ו אאסיא	SECTION	אירם	### ##################################	ALPHA : 1	SECTION	X/LB	9H] .029 40.03	ALPHA (2	SECTION	X/LB	PH1 000 40.030
										OF OF	RIGINA POO		PA()UA		EI Yi				

DATE 13 FEB 75 TABULATED	PRESSURE DATA - DAIYB (AMES 11-073-1	1-073-1		PACE STAR
	AMES 11-07310A148) -140A/8/C	ORB BODY FLAP UP	(XEBF76)	
ALPHA (2) = .033 BETA (2) =	.181 MACH = 1.3913	G = 598.64 P	= (44).83	EN/1 = 2.9093
SECTION (1180DY FLAP UPPER	DEPENDENT VARIABLE CP			
X/LB 1.0180 1.0450				
PH1 .00034183550 90,00035333555				
ALPHA (2) = .029 BETA (3) =	4.255 MACH = 1.3913	0 * 598,64 P	# 4#1.83	RN/L = 2.9053
SECTION (11803Y FLAP UPPER	DEPENDENT VARIABLE CP			
X/LB 1.0180 1.0450				
PH) .dac3593 .40.0003593				
ALPHA: 31 = 3.951 BETA (1) =	-3.871 MACH = 1.3919	0 = 599.88 P	82.544 =	-1/16 B # 1/18
SECTION (11803Y FLAP UPPER	DEPENDENT VARIABLE CP			
0940:1 caio:1 81/X				
PHI "0%0 + .33253507 +0.0%035258526				
ALPHA (3) = 3.952 BETA (2) =	.187 MACH = 1.3919	98,665	## ## 13 0	P\$/1 = 2.9774
SECTION 1 11800Y FLAP UPPER	DEPENDENT VARIABLE CP			
X/LB 1.0180 1.0450				
F452 "3352 "1010.04				
ALPHA (3) = 3.953 BETA (3) =	4.246 MACH * 1.3919	0 * 599.88 P	en results	# N.0.3
SECTION 11800Y FLAP UPPER	DEPENDENT VARIABLE CP			
09+01:018111 BTV2				
#3+E'- 13+E'+ 0#0'04 1Hd				

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	PRESSURE DATA - DAIMB (AMES 11-073-1)	-073-1)			ĐY c	PAGE 15743
	ANES 11-07310A148) -140A/8/C	ORE BODY FLAP UP		(XEISF75)		
# [1 1 AT38	-3.856 MACH = 1,3932	0 ± 800.00	σ,	# 441.59	* 7/Z	2.9153
SECTION (BYBODY FLAP UPPER	DEPENDENT VARIABLE CP					
X/LB 1.0183 1.0450						
HH .00033573485 000.004				6 6 7		ט אין
ALPHA (1+1) = 7.954 BETA (2) =	. 139 MACH # 1.3932	a ≠ 600.00	٠.	7. I)))
SECTION (11BODY FLAP UPPER	DEPENDENT VARIABLE CP			•		
X/LB 1.0183 1.0460						
1H9 3835 - 3355 - 350 3845 - 3358 - 3600.04				C W :	ā	0. 6. 6. 6.
ALPHA (41 = 7.93) BETA (3) =	,	o # 600.00	D	n n r r r		
SECTION (1) BODY FLAP UPPER	DEPENDENT VARIABLE CP					
X/L8 1.0380 1.0460						
PH8 			í		ž	200
ALPHA (S) = 11,871 SETA (1) =	-3.849 MACH = 1.3930	BI (1/2) #	a .	JOI THE		2
SECTIONS (1) BODY FILMP UPPER	DEPENDENT VARIABLE CP					
X/LB 1.0:80 1.0450						
1Hd 54BE.+ 618E.+ 0ED. 76BE.+ 834E.+ 0ED.04		,		;	2 1	c (c)
ALPHA (S) = 11.913 SETA (2) : SECTION (1)800Y FLAM UPPER	* 191 MACH * 1.3930 DEPENDENT VARIABLE CP	0	ሲ	n F	<u> </u>	

1.018C 1.046O

X/LS

-.3470 -.3566 -.3499 -.3538

DATE 13 FEB 76 TABULATED	D PRESSURE DATA - DAITH & AMES 1	1-073-1		PAGE 5744
	AMES 11-073(0A148) -140A/B/C	ORB BODY FLAP UP	(XE8F76)	•
ALPHA (5) = 11.908 BETA (3)	+ 4.262 MACH + 1.3930	G * 600.10	p +41.85	RN/L = 2.9227
SECTION : 1) BODY FLAP UPPER	DEPENDENT VARIABLE CP			
X/LB 1.0180 1.0460				
PH1 .0.0034663592 40.00036523686		durun in Gurun in Gurun ingeni		
6	* -3.830 MACH = 1.3921	0 = 600.28	p = 442,53	TAN/L = 2.9208
SECTION (11800Y FLAP UPPER	DEPENDENT VARIABLE CP	- 10 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4		
X/LB 1.0180 1.0460				
PHI . 0003576 40.00035923544				na in
15.6	# 1.190 MACH = 1,3921	0 - 600.28	P = 442.53	RN/L = 2.9208
11BODY FLAP UF	DEPENDENT VARIABLE CP			
איב 1.0180 1.0469				
6035				
S465 8485 000. Em				
ALPHA (6) = 15.907 PETA (3)	* 4.290 MACH = 1.3921	_ 600.23	• #2.53	MAV. = C.3CUB
SECTION (11900Y FLAP UPPER	DEPENDENT VARIABLE CP			
X/LB 1.6180 1.0463				
.00035963753 +0.00039313962				
				.•
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and the second s				

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XE 5745	JG 75 J	ويعدوه أوالمنافئة	1.200	3.0204	s saemy s			3.0204				3.0204		·.		= 3.0183			
PAGE	7) (05 AUG	DATA	SPOBRK = L-ELVN = MACH =	FN/L				F				RN/L				RN/L			
·	(XE8F77)	PARAMETRIC DATA	-10.000 -11.700 -10.000	• 552.28		•		* 552.28				= 552.28			· ·.	552.51		1211.2	
			RUDDER = BOFLAP = R-ELYN =	٩			- 10 - 11 -	Q .	a ar ir			٩		1,6.00		•			
	ORB BODY FLAP UP	18		= 599.63				= 599.63				599.63			an see e	= 599.58		CIPA 2	
11-073-1	C ORB E			ø				 O				O				0			
PRESSURE DATA - 0A148 (AMES 11-073-1	AMES 11-073(DA148) -140A/B/C		1076.6809 IN. XO .0000 IN. YO 375.0060 IN. ZO	-3.849 MACH = 1,2454	DEPENDENT VARIABLE CP			. 186 MACH = 1.2454	DEPENDENT VARIABLE CP			4.275 MACH = 1.2454	DEPENDENT VARIABLE CP			-3.863 MACH = 1.2451	DEPENDENT VARIABLE CP		
TABULATED PRE				2								(8)			•	(1)			. :
DATE 13 FEB 76 TAE		PEFERENCE DATA	2650.0000 SQ.FT. 474.8000 IN. 936.0680 IN.	11 = -4,016 BETA	` ⊃	1.0190 1.0460	10 - 3754 - 3925 10 - 3909 - 3936	11 = +4.011 BETA	SECTION (11800Y FLAP UPPER	1.0180 1.0460	3037283894 3038863918	AT38 650.4- = (1)	SECTION (11800Y FLAP UPPER	1.0180 1.0450	02 - 3823 - 3957 03 - 3949 - 3934		SECTION I IIBOOY FLAP UPPER	1.0180 1.0460	10036873835 2003687
DATE 13	:		SAEF LREF BREF A BREF A BREF	ALFHA (1)	SECTIO	X/LB	PH1 .030 40.040	ALPHA (11	SECTIC	X/LB	PH1 .000 40.000	ALPHA (1)	SECTIC	87.X	PHI 1002 45,000	ALPHA (2)	SECT !(X/LB	PHY

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DATE 13 FEB 76 TABULATED	TABULATED PRESSURE DATA - 0A148 (AMES 11	11-073-1)	· · · · · · · · · · · · · · · · · · ·	PAGE 5746
	AMES 11-07310A148) -140A/B/C	ORB BOOY FLAP UP	(XEBF77)	
ALPHA (2) = .014 BETA (2)	= 1.2451 = 1.2451	n 599.58	552.51	RN/L = 3.0183
SECTION (1)BODY FLAP UPPER	DEPENDENT VARIABLE CP			
X/LB 1.0180 1.0450				
PHI .000 - 3675 - 3850 40.000 - 3795 - 3855		and the second s		
ALPHA (2) = .026 BETA (3)	* 4.255 MACH * 1.2451	0 = 599.58 P	552.51	RN/L = 3.0183
SECTION (1)BODY FLAP UPPER	DEPENDENT VARIABLE CP			
X/LB 1.0180 1.0460				
PH1 .0003985 -000. 40.000 +.37943621				
ALPHA (3) # 3.987 9ETA (1)	* -3.858 MACH * 1.2451	0 = 599.58 P	- 552.51	RN/L - 3.0187
SECTION (TIBODY FLAP UPPER	DEPENDENT VARIABLE CP			
X/LB 1.0180 1.0450				
PH1 .00036583780				
1,5,5,2,1	= .182 MACH = 1.2451	0 - 599.58 P	- 552.51	RN/L = 3.0187
SECTION (1) BODY FLAP UPPER	DEPENDENT VARIABLE CP			
X/LB 1.0180 1.0450				.·
PH1 .00035853703 \$0.00035573581				
ALPHA (3) # 3.988 BETA (3)	= 4.246 HACH = 1.2451	0 = 599.58 P	* 552.51	FN/L = 3.0187
SECTION (1)800Y FLAP UPPER	DEPENDENT VARIABLE CP		• ••	
X/LB I.0180 1.5460				
PH1 .000 = 3804 = 3975 40.000 = 3823 = 3956				

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DATE 13 FEB 75 TABULATED PRESSURE DATA - DAIVB : AMES 11-073-1	1-073-1)		PAGE 5747
	ORB BODY FLAP UP	(XEBF77)	
A. PHA (4) # 7.974 BETA (1) = -3.859 MACH = 1.2449	49.66€	P = 552.75	RN/L = 3.0238
SECTION (1)BODY FLAP UPPER DEPENDENT VARIABLE CP			
X/LB 1.0190 1.0460			
PHI .00035443818 40.00037623818			
ALPHA (4) # 7.979 BETA (2) = .184 MACH = 1.2449	D = 599.64	P = 552.75	RN/L = 3.0238
SECTION : 13BODY FLAP UPPER DEPENDENT VARIABLE CP			
X/LB 1.0180 1.0460			
PHI .00035593731			
- <u>-3717</u>	. 599.64	P = 552.75	RN/L = 3.0238
11BODY FLAP UPPER DEPENDENT VARIABLE			
X/LB 1.3180 1.0460			
PHI .50038523952 +0.00038923955			
ALPHA (5) = 11.961 BETA (1) = -3.847 MACH = 1.2454	0 * 599.63	ъ 552.28	RN/L * 3.0229
SECTION (17800Y FLAP UPPER DEPENDENT VARIABLE CP			,
X/LB 1.0180 1.0460			
HPI .000. 6504 9195 000.04			
ALPHA (5) # 11.970 BETA (2) # .192 MACH # 1.2454	0 = 599.63	P. * 552.28	FN/L = 3.0229
SECTION (1) BODY FLAP UPPER			
X/18 1.0180 1.0460			
PHI .060 +.38794035 .000.04			

TABULATED PRESSURE DATA + DAIHB (AMES 11-373-1) DATE 13 FEB 76

ORB BODY FLAP UP

AMES 11-073(0A148) -140A/B/C

4.260 MACH

ALPHA (5) = 11.962

DEPENDENT VARIABLE CP SECTION (1) BODY FLAP UPPER

1.0180 1.0460 X/LB

-.3786 -.4037 PH1 .000 40.000

(XE8F77)

PAGE 5748

= 3.0229

RN/L

ORB BODY FLAP UP TABULATED PRESSURE DATA - OAI48 (AMES 11-073-1) AMES 11-073(0A148) -140A/B/C DATE 13 FEB 76

PAGE 5749 1 05 AUG 75 (XE8F78)

3.1886 **3** PARAMETRIC DATA * 709.06 -10.000 -11.700 -10.000 599.81 DEPENDENT VARIABLE CP -3.838 MACH 1076.6800 IN. XO .0000 IN. YO 375.0000 IN. ZO BETA (1) . XMRP, YMRP, ZMR? SECTION ! : 1800Y FLAP UPPER REFERENCE DATA -4.062 ALPHA (1) =

1.0180 1.0450 X/LB

599.81 DEPENDENT VARIABLE CP MACH . 195 <u>ر</u> م BETA SECTION (TIBODY FLAP UPPER -.3982 -.+001 ALPHA (:) = -4.058 -.3936 40.000 0000

RNI

709.06

:.C180 1.046G X/LB

599.81 4.277 MACH = 1.0993 DEPENDENT VARIABLE CP 33 * BETA SECTION 1 11BODY FLAP UPPER ALPHA F 11 # -4.055

709.05

MACH # 1.0990 DEPENDENT VARIABLE CP -3.863 SECTION (1) BODY FLAP UPPER 040-ALPHA (2)

N Z

709.30

599.71

40.930 40.930

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-. 3953 -. 3931

1.0180 1.0460

1,4271 -.4173 -.4165 . 000 40.000 1.0180 1.0460 X/LB

-.3778

DATE 13 FEB 75 TABULATED P	PRESSURE DATA - DAINB (AMES 11-073-1)	1-073-1			۵.	PAGE 5750
	AMES 11-073(0A148) -140A/B/C	ORB BODY FLAP UP		(XE8F78)		
ALPHA (2) = .041 BETA (2) =	.186 MACH = 1.0990	0 = 599.71	a.	709.30	J/NE	3.1896
SECTION (17800Y FLAP UPPER	DEPENDENT VARIABLE CP		·			
X/LB 1.0180 1.0460						
PH1 .00037903893 40.00037803845						
ALPHA (2) = .035 BETA (3) =	4,252 MACH = 1.0990	0 = 599.71	D.	709.30	RN/L	3.1896
SECTION (1) BODY FLAP UPPER	DEPENDENT VARIABLE CP					
X/LB 1.0180 1.0460						
1H9 .000. .000. .000 3428.		•				
ALPHA (3) = 4.005 BETA (1) =	-3.864 MACH = 1.0989	0 = 599.58	B C.	709.30	FN/L	3.1896
SECTION (1) BODY FLAP UPPER	DEPENDENT VARIABLE CP					
X/LB 1.0180 1.0460						
PHI .COU33593846 .COO.04						
ALPHA (3) = 4.004 BETA (2) =	.194 MACH = 1.0969	0 = 599.58	G.	709, 30	RN/L	= 3.1895
SECTION (1) BOOY FLAP UPPER	DEPENDENT VARIABLE CP					
X/LB 1.0180 1.0460						
PHI .CDQ37763945 .b0.30037593800						
ALPHA (3) = 4.004 BETA (3) =	4.242 МАСН = 1.0389	0 = 599.58	•	709.30	FAV/L	3.1896
SECTION (1) BODY FLAP UPPER	DEPENDENT VARIABLE CP					
X/LB 1.0180 1.0460						
PHI .00039544028 +0.0003949						

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DATE 13 FEB 76 TABULATED F	PRESSURE DATA - 0A148 (AMES 11-073-1)	-073-1	-		Ω.	PAGE 5751
	AMES 11-073(0A148) -140A/B/C	ORB BODY FLAP UP		(XE8F78)		
ALPHA (4) = 8,022 BETA (1) =	-3.857 MACH = 1.1003	0 = 600.35	۵.	- 708.37	RN/L	± 3.1925
SECTION (1) BODY FLAP UPPER	DEPENDENT VARIABLE CP					
X/LB 1.0180 1.0460						
PH1 .0003882 +.3923 40.0303834 +.3911						
ALPHA (4) = 8.002 BETA (2) =	.186 MACH = 1,1003	a * 600.35	٥	- 708.37	%	3.195
SECTION (1)BODY FLAP UPPER	DEPENDENT VARIABLE CP					
X/LB 1.0180 1.0460						
1Hd 6852'+ 8852'- 000' 6852'+ 882'- 000'0+						
ALPHA (4) = 7.997 BETA (3) +	4.238 MACH = 1.1003	a * 600.35	۵	= 708.37	RN/L	3.1965
SECTION (1) BOOM FLAP UPPER	DEPENDENT VARIABLE CP	•	٠.			
X/L8 1.0180 1.0460						
PH1 						
ALPHA (5) # 11.963 BETA (1) #	-3.838 HACH = 1.0980	0 = 599.15	Δ.	- 710.01	1	3.1917
SECTION I LIBOOY FLAP UPPER	DEPENDENT VARIABLE CP					
X/LB 1,0180 1.0460						
3614 DTG4 000.04 3614 1504 000.04						
ALPHA (5) # 11,967 BETA (2) #	.194 MACH * 1.0980	\$1.665 = 0	Ģ	* 710.01	7	3.1917
SECTION (1) BOOK FLAP UPPER	DEPENDENT VARIABLE CP					
X/LB 1.0450						
PHI 020 4263 - 4263						

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PN/L (XEBF7B) 710.0: ORB BODY FLAP UP TABULATED PRESSURE DATA - DAINB (AMES 11-073-1) AMES 11-073(0A148) -140A/B/C . 1.0980 4.256 MACH BETA (3) ALPHA (5) = 11.958 DATE 13 FEB 76

DEPENDENT VARIABLE CP

SECTION 1 17800Y FLAP UPPER 1.0190 1.0460 X/LB

-.4335 -.4263 +,4150

PAGE 5752

3.1917

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PAGE 5753	(05 AUG 75)	Ķ	SPDBRK000 L-ELVN . 10.000 MACH900	RN/L + 3.5827				RN/L * 3.5827				FN/L * 5.5667				RN/L * 3.5771			
	(XEBF79)	PARAMETRIC DATA	RUDDER * -:0.000 SP0 BOTLAP * -11.700 L-E R-ELVN * -10.000 MAC	p = 1058.8				P = 1058.8				P = 1058.8				P = 1058.8			
-073-1)	ORB BODY FLAP UP			42.003 - 0				# 600.24				4 600.24				0 = 599,75	÷		
DATE 13 FEB 75 TABULATED PRESSURE DATA - DA148 (AMES 11-073-1	AMES 11-073(0A148) -140A/B/C	REFERENCE DATA	SREF = 2590.0000 SO.FT. XMRP = 1076.5800 IN. XO LREF = 474.88000 IN. YMRP = .0000 IN. YO BREF = 935.0000 IN. ZMRP = 375.0000 IN. ZO GROUP = 0300	~	SECTION (1)800" FLAP UPPER DEPENDENT VARIABLE CP	X/LB 1.0180 1.0460	PHI .00024742642 40.0002452519	ALPHA (1) # -4.055 BETA (2) # .202 MACH # .89997	SECTION (1) BODY FLAP UPPER DEPENDENT VARIABLE OF	X/LB 1.0180 1.0460	PHI .00025423070 40.0002613 +.2651	ALPHA (1) # -4.070 BETA (3) # 4.283 MACH # .89997	SECTION (1) BODY FLAP UPPER DEPENDENT VARIABLE CP	X/LB 1.0180 1.0463	PHI . COG + 2694 - 3150 . COG + 2779 - 2820	ALPHA (2) = .045 BETA (1) = -3.859 MACH = .88957	SECTION (1383DY FLAP UPPER DEPENDENT VARIABLE CP	X/LB 1.0180 1.0469	PH1 COO24552787 40.00022522467

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DATE 13 FEB 76 TABULAT	TEO P	RESSURE	DATA	- OAI	TABULATED PRESSURE DATA - OAL48 (AMES 11-073-1)	1-073-1	_					α.	Page 1370f	
		AMES 11.	-07310	A 1483	AMES 11-073(0A148) -140A/B/C	ORB BODY FLAP UP	<u>ا</u> ا	dh dy-			(XEBF79)			
ALPHA (2) = .042 BETA (2)	*	<u>86</u>	MACH	: :	.89957	a		599.75	a .		1058.8	Z Z	3.577	2
SECTION I DIBOOK FLAP UPPER		DEP	NDENT	VARI	DEPENDENT VARIABLE CP									
X/L8 1.0180 1.0460		*												
146 1865 1860 000 1865 1860 000					J									
ALPHA (2) + .032 BETA (3)	# #	4.260	MCH	*	19658.	o	•	599.75	Δ.		1059.9	128	3.5771	E
SECTION K DIBODY FLAP UPPER		DEP	NOENT	VARI	DEPENDENT VARIABLE CP									
X/LB 1.0180 1.0460														
PH1 .00029332983 40.00026832805				·							-			
ALPHA (3) * 4.023 BETA (1)	*	-3.861	MACH	#	.90070	o	•	600.44	Đ.	-	1057.3	1/ Æ	3.5793	8
SECTION A DIBCOY FLAP LEPER		05.9	NDENT	VARI	DEPENDENT VARIABLE CP									
X/LB 1.0180 1.0460														
PH! 														
ALPHA (3) = 4.017 BETA (2)	II	. 197	MACH	* T	.90070	0		600.44	۵.	-	1057.3	1/	= 3.5783	33
SECTION (1) BODY FLAP UPPER		130	ENDENT	VARI	DEPENDENT VARIABLE CP	•								
X/LB 1.0180 1.0460														
PHI - 2375 - 2826 - 000 - 2375 - 2826 - 000 - 2305 - 248														
ALPHA (3) = 4.017 BETA (3)	*	. 25.	MACH	*	.90070	0	•	500.44	٥.		1057.3	1/2	= 3.5793	93
SECTION I DEBOTY FLAP UPPER		200	ENDENT	VAR1.	DEPENDENT VARIABLE CP									
X/L8 1.0180 1,0460														
PH1 .00029232830 40.00028493704								•						

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DATE 13 FEB 76 TABULATED 1	PRESSURE DATA - 04148 (AMES 11-073-1	-073-1)			₹ ċ	PAGE 5755
	AMES 11-073(0A148) -140A/B/C	ORB BODY FLAP UP		(XE8F79)		
ALELA (4). # 7.937 BETA (1) #	-3.857 MACH * .90017	Q = 600.17	• •	1058.1	7/8	* 3.5825
SECTION (1:800Y FLAP UPPER	DEPENDENT VARIABLE CP					
X/LS 1.018d 1.0450						
149 .003 - 2334 - 2607 40.004 - 2175 - 2360						
ALPHA (4) = 7.93H BETA (2) *	.192 MACH = .90017	0 = 600.17	•	1058.1	1/1	3.5825
SECTION (1) BODY FLAP UPPER	DEPENDENT VARIABLE CP		,			
1.0189 1.0450		,				
3445. 1049 000.04						
1,PH4 (4) = 7.926 BETA (3) #	4,250 MACH * ,90017	a = 600.17	•	1058.1	7/18	3.5825
MICHEN C DEGOY FLAP UPPER	DEPENDENT VARIABLE CP					
X/L3 1.0180 1.0460						
##62" - \$292" - CCC						
ALPHA (5) # 11,969 BETA (1) #	-3.847 MACH * .89890	41.665 *	# CL	1059.2	RAIVL	3.5769
SECTION 1 13 BOOM FLAP UPPER	DEPENDENT VARIABLE CP					
0940-1 0810-1 67/X						
P41 .00025502808 40.000247225446						
Alpua (5) # 11.976 BETA (2) #	.196 MACH = .89890	4 599.14	.	1039.2		3.5769
SECTION I DECOY FLAP UPPER	DEPENDENT VARIABLE CP					
09+0:1 0810:1 E1/X						
8-1 .30024902783 40.30025042683						

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AMES 11-073(0A148) +140A/B/C ORB BCOY FLAP UP ø 4.265 MACH = .89890 A_FHA : 51 = 11.956 BETA (3) =

DEPENDENT VARIABLE CP

SECTION (1) BOOY FLAP UPPER 1.0193 1.0450 E T/X

-. 2992 -. \$145 -. 2716 -. 2765 600 . 600 40.600

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3.5759 × 3.5759 1059.2

PROF FOR	C BCC CONTROL & COBSERVED CO	PARAMETRIC DATA	RUDDER = -10.DC1 SPOBKX =	8628"H * 1/N3 C"3822 * d				9928°t # t/Not 0°9828 # d 1			•	1 2386 D SE 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		2.		8578 T = 1/82 0 1982 = d 0			
TABULATED PRESSURE DATA + OAIH8 (AMES 11-073+1)	AMES 11-073:0A148) +140A/B/C ORB BODY FLAP UP		1076.5800 IN. XO .0000 IN. YO 375.0000 IN. ZO	* -7.858 MACH * .59728 G * 595,85	DEPENDENT VARIABLE CP			= -3.836 MACH = .59728 0 = 595.86	DEPENDENT VARIABLE CP			* 183 MACH * . 59728 Q * 595.86	DEPENDENT VARIABLE CP		•••	* 4.258 MACH * .59728 0 * 595.86	DEPENDENT VARIABLE CP	Name -	
DATE 13 FEB 76 TABULATE		REFERENCE DATA	SREF - PEGGLOGGE SG.FT. XMRP = 474.8000 IN. YMRP = 836.0690 IN. ZMRP = 6040.0000 IN. ZMRP = 60400 IN. ZMRP = 60400 IN. ZMRP = 60400 IN. ZMRP = 60400 IN. ZMRP = 60400 IN. ZMRP = 60400 IN. Z	(1) = -4.078 BETA (1)	CON IL 1980	X/LB 1.0180 1.0460	######################################	ALPHA (1) = "4.062 BETA (2)	SECTION (1980DY FLAP UPPER	X/LB 1.0180 1.0460	PHI .00023452896 .0.0002531	ALPHA (11 = -4.051 BETA (3)	SECTION (11800M FLAP UPPER	X/28 1.0190 1.0460	.coee33ee51 .coee33ee513 .co.ooee3778	ALPHA (1) = +3.853 BETA (4)	SECTION & 11BODY FLAP GPPER	X/LB 1.0180 1.0460	PH1 .000 - E853 - 3105 %0.000 - E850 - 2860

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DATE 13 FEB 75 TABULATED PRESSURE DATA - DAIHB (AMES 11-073-1)		•	ā	PAGE 5758
ANES 11-073(0A148) -140A/B/C ORB BODY FLAP UP		(XEBF80)		
ALPHA (1) = -3.995 BETA (5) = 8.327 MACH * .59728 0 = 555.86	a .	2386.0	RN/L	₽628.+ =
SECTION (1:BODY FLAP UPPER DEPENDENT VARIABLE CP "				
X/LB 1.0180 1.0460	٠			
PHI .00028743163 .00029693028				
ALPHA (2) =053 BETA (1) = +7.896 MACH * .59646 Q = 594.33	•	2386.5	RN/L	= 4.8222
SECTION (1) BOCY FLAP UPPER DEPENDENT VARIABLE CP				
X/LB 1.0180 1.0460				
PH1 000,2409,2677 40,000,2437,2621				
ALPHA (2) =008 BETA (2) = -3.854 MACH * .59646 Q = 594.33		2385.5	RN/L	2558.4 ×
SECTION (1)BODY FLAP UPPER DEPENDENT VARIABLE CP				
X/LB 1.0180 1.0450				• •
PHI .00023732861 40.00024532653				
ALPHA (2) = .029 BETA (3) = .176 MACH = .59646 0 = 594.33	•	2386.5	RAYL	= 4.B222
SECTION (1780DY FLAP UPPER DEPENDENT VARIABLE CP				
X/LB 1.0180 1.0460				
PHI .000 - 24962952 40.00025362706				
ALPHA (2) = .052 BETA (4) = 4.239 MACH = .59646 0 = 594.33	. # - Q.	2386.5	FAV.L	2238° 4 =
SECTION (1)BODY FLAP UPPER DEPENDENT VARIABLE CP		٠.		
X/LB 1.0180 1.0460				
P412805308900027622762				

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PAGE 5760		- 4.8207					* 4.8197					* 4.81 <u>9</u> 7			* 4.8197				# 4.8197			
**	_	RN/L					RN/L					KN/L			Š				RN/L			
	(XEBF80)	- 2386.5					2386.1					7386. I	•		2386.1				2386.1	٠		
		.				: ,	C.			Santa Santa Santa	1	. D,			a				• •			
•	ORB BODY FLAP UR	= 593.97					593.85					# 55.85			* 593.85				= 593.85			
11-073-1		o					ø				•	3			ø				O			•
TABULATED PRESSURE DATA - OALYB (AMES 11-073-1)	AMES 11-673(0A148) -140A/B/C	8.276 MACH * .59628	DEPENDELT VARIABLE CP				-7.896 MACH ≈ .59626	DEPENDENT VARIABLE CP				SEPENDENT VARIARY F CP			.184 MACH = .59526	DEPENDENT VARIABLE CP			4.233 MACH = .59626	DEPENDENT VARIABLE CP		
ULATED PRES	AMES	(5)= 8					(1) = -7.	. •						· · · · · ·	(3) =	:	·	···	. # (#)			-
DATE 13 1 (B 76 TAB		ALPHA (5) + 4.029 BETA	SECTION (1)BODY FLAP UPPER	X/LB 1.0180 1.0460	59+2.+	40.00027492725	ALPHA (4) = 7.903 BETA	SECTION (1)800Y FLAP UPPER	X748 1.0180 1.0460	PH1 - 25559 - 000 - 2559	ee/8e526	1.900	X/LB 1.0180 1.0460	PHI . CCC 2256 2636 .40.000 2358 2447	ALPHA (4) = 8.059 BETA	SECTION (DIBOOK FLAP UPPER	X/LB 1.0180 1.0460	PHI . 000 2557 2871 40. 000 2418 2554	ALPHA (4) = 8.316 BETA	SECTION (1)BODY FLAP UPPER	X/LB :.0180 1.0450	PH1 . 00023943004

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DATE 13 FEB 76 TABULATED P	TABULATED PRESSURE DATA - DAI48 (AMES 11-073-1	-073-1		2	
	AMES 11-073(04148) -140A/B/C	ORB BODY FLAP UP	(XE8F80)		
A: PHA (4) = 8.043 BETA (5) =	8.283 MACH = .59626	0 = 593.85	Р = 2386.1	RN/L	4.8197
SECTION (1) BODY FLAP UPPER	DEPENDENT VARIABLE CP				
X/LB 1.0180 1.0450					
PH1 . 000 2942 3000 40. 000 2789 2789					
6	-7.860 MACH * .59550	0 = 594.19	p • 2385.7	RN/L	4.8199
SECTION (1) BODY FLAP UPPER	DEPENDENT VARIABLE CP				
X/LB 1.0180 1.0460			: .		
PH1 . 0502562615 40.0002252459					
ALPHA (5) = 11.993 BETA (2) =	+3.842 MACH = .59650	0 = 594.19	p * 2385.7	RN/L	4.8199
SECTION (1) BODY FLAP UPPER	DEPENDENT VARIABLE CP				
X/L8 1.0180 1.0460					
PH1 0.0022312640 90.00023472475					
ALPHA (5) = 12.035 BETA (3) =	.179 MACH = .5965D	0 = 594.19	p = 2385.7	A. 7.	. 4.8199
SECTION (1)BODY FLAP UPPER	DEPENDENT VARIABLE CP			•	
X/LB 1.0180 1.0460					
PH1 ,00023032760 40,00023972548					
ALPHA (5) = 12.027 BETA (4) =	4.242 MACH = .59550	0 = 594.19	P * 2385.7	EN/L	. 4.819 <u>6</u>
SECTION (1) BODY FLAP UPPER	DEPENDENT VARIABLE CP		 		
X/LB 1.0180 1.0460		•			
PHI .0002374E310 +9.00024808636		· ·			

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TABULATED PRESSURE DATA - OAI48 (AMES 11-073-1)

(XE8F80)

AMES 11-073(0A148) -140A/B/C

* .59650

8.297 MACH

BETA (5) *

SECTION (1)BODY FLAP UPPER

ALPHA (5) = 12.061

1.0180 1.0460

X/LS

-.2760

PH1 .000 +C.000

DEPENDENT VARIABLE CP

RNI

4.8199

PAGE 5762

DATE 13 FEB 76	TABULATED PRESSURE DATA - DAING (AMES 11-073-1	11-073-1)			.	PAGE 5763
	AMES 11-073(0A148) -140A/B/C	ORB BODY FLAP UP		(XE8F81)	-	05 AUG 75)
REFERENCE DATA				PARAMETRIC DATA	DATA	
SACF * 2590.0009 SO.FT. LACF * 474.8000 IN. BATE * 959.0630 IN.	T. XPRP = 1076.6800 IN. XO YPRP = .0000 IN. YO ZPRP = 375.0000 IN. ZO		RUDDER = 80FLAP = R-ELVN =	10.000 10.000	SPOBRK • L-ELVN • MACH	.000 -10.000 1.400
-	BETA (1) * 1.76 MACH * 1.3929	0 = 599.69	Q.	• 441.59	RN/L	- 2.9281
SECTION (1) BODY FLAP UPPER	UPPER DEPENDENT VARIABLE CP					
X/LB 1.0180 1.0460	99					
Hd +59E 888E 000. 9-00-0+	6 <i>ነረ</i> ት25					
ALPHA (2) = .028	3ETA (1) = .177 MACH * 1.3894	4 599.62	Q	· 443.71	FN/L	* 2.9515
SECTION (1180DY FLAP UPPER	UPPER DEPENDENT VARIABLE CP					
X/LS 1.0:80 1.0463	t8t					
PH1 .00035363584 40.00036043593	58 4					,
ALPHA (3) = 3.945	BETA (1) = -3.872 MACH : = 1.3917	0 * 599.67	۵.	= 442.30	1	- 2.9226
SECTION (1) BODY FLAP UPPER	UPPER CPENDENT VARIABLE CP					
X/LB 1.0180 1.0460	160					
PHI .00c - 3563 - 3507 40,00c - 3558 - 3599	507 599					
ALPHA (3) = 3.583	BETA (2) = . 185 MACH = 1.3917	0 * 599.67	۵	* 442.30	FRY /L	= 2.9256 =
SECTION : 1:BODY FLAP UPPER	UPPER CEPENDENT VARIABLE CP					
X/LB 1.0180 1.0460	460					
PHI . 030 3480 3543 40. 030 5521 3572	543 572					

DATE 13 FEB 75 TABULATED	TABULATED PRESSURE DATA - CAI48 (AMES 11-073-1)	1-073-1)				PAGE 5764
	AMES 11-073(0A148) -140A/B/C	CRB BODY FLAP UP		(XE8F81)		
ALPHA (51 + 3.932 BETA (3) =	4.246 MACH * 1.3917	0 = 599.67	Q.	- 442.30	RN/L	- 2.9226
SECTION (1'80DY FLAP UPPER	DEPENDENT VARIABLE CP					
x/L9 1.0180 1.0460						
PHI .000 - 3458 - 3557 .40.000.c4						
ALPHA (4) = 7.903 BETA (1) =	.179 MACH + 1.3906	0 = 599.65	۵	- 443.00	RN/L	* 2.9169
SECTION (1)BODY FLAP UPPER	DEPENDENT VARIABLE CP					
X/LS 1.0180 1.0460						
11.1 11.1 11.1 11.1 11.1 11.1 11.1 11.						
ALFH4 (5) = 11.906 BETA (1) *	-3.868 MACH * 1.3903	44.662 = 0	۵	■ 443.00	RN/L	= 2.9079
SECTION (1)800Y FLAP UPPER	DEPENDENT VARIABLE CP					
X/LB 1.0180 1.0460						
777 - 3555 - 775. 9272 - 3655 - 733.34	,					
ALPHA (5) = 11.888 BETA (2) =	.169 MACH • 1.3903	44.662 • D	۵	# 1443,00	FW/L	= 2.9079
SECTION (17BODY FLAP UPPER	DEPENDENT VARIABLE CP					
x.ca 1.diad 1.0460					•	
116 2002 - 4848 - 000 1000 04						
ALP44 (5) = 11.887 BETA (3) =	4.249 MACH * 1.3903	- 599.44	٥.	* 443.00	FNAL	= 2.9079
SECTION (1) BODY FLAP UPPER	DEPENDENT VARIABLE CP					
x.t.e 1.0180 1.0450						
1.881 4577 600 - 3811 45.625 4577 625.54						

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TABULATED PRESSURE DATA - OAI48 (AMES 11-073-1)

ORB BODY FLAP UP

AMES 11-073(0A148) -140A/B/C

.150 MACH * 1.3887 DEPENDENT VARIABLE CP

BETA (1) =

= 599.91

SECTION / LIBODY FLAP UPPER

A, PHA (fi) = 15.870

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1.0180 1.0460 87/X

-.3634 -.37**65** -.3859 -.3922 PHI .000 40.000

2.906.5

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DATE 13 FEB 76	TAB	TABULATED		SSURE	DATA	. 0A14	PRESSURE DATA - DAINB (AMES 11-073-1	1-073-1	~ .					ā	PACE 5765	765
			¥	-11 53	07310	(841)	AMES 11-07310A148) -140A/B/C	ORB BODY FLAP UP	OY FL	AP UP			(XEBF82)	1 05 AUG	AUG 75	ر د
REFE	REFERENCE DATA											PAR	PARAMETRIC I	DATA		
SREF = 2690.0000 LPEF = 474.8500 BREF = 935.0580 SCALE = .030	SO.FT. XMRP		1076 375	1076.6800 .0000 375.0000	IN. X0 IN. Y0 IN. Z0						RUDDER = BDFLAP = R-ELVN =	===	10.000 -11.700 10.000	SPDBRK = L-ELVN = MACH =	-10	.000 -10.000 1.250
ALPHA (11 = -4.	-4.001 BETA	=	ı	.172	MACH	•	1.2466	0		600.03	a .		551.58	RN/L	w	3.0277
SECTION (1)BODY	11BODY FLAP UPPER			3430	DEPENDENT VARIABLE	VARIA	BLE CP									
X/LB 1.0180	1.0+50								1							
PH1 .00038+1 +0.00038+6	3861															
ALPHA (2) = .	.004 BETA	<u> </u>		171.	MACH		1.2457	0	gr B	599.87	c .	1	552.28	RN/L	m m	3.0295
SECTION (1)BODY	INBOON FLAP UPPER			3430	NDENT	VARIA	DEPENDENT VARIABLE CP	÷								
x/LB 1.0180	1.6460															
PH1 ,0003834 90,0003870	3851															
ALPHA (3) = 3.	3.913 BETA	=======================================		-3.880	MACH		1.2454	o	en #	599.82	a		552.51	PR/L	#	3.0275
SECTION (1) BODY FLAP UPPER	FLAP UPPER			3430	DEPENDENT VARIABLE	VARIA	BLE CP									
X/LB 1.0180	1.6+50															
PH1 .0003906 40.0003888	-,3920															
ALPHA (3) = 3.	3.95g BETA	62 >		. 192	MACH	•	1.245	ø	gri H	599.85	Q.		552.51	FN/	*	3.0275
SECTION (1) BODY FLAP UPPER	FLAP UPPER			3430	NDENT	VARIA	DEPENDENT VARIABLE CP									
x/LB 1.0180	1.0460															
PH1 .0003782 +0.0303832	3825 395+															

DATE 13 FEB 76 TABULATED PR	TABULATED PRESSURE DATA - DAIWB (AMES 11-D73-1)	-073-1					PAGE 5767
•	AMES 11-073(GA148) -140A/B/C	ORB BODY FLAP UP	LAP UP		(XEBFB2)		
ALPHA (3) = 3.915 BETA (3) #	4.245 MACH = 1.2454	•	599.82	<u>a</u>	= 552.51	RN/L	3.0275
SECTION OF THE UPPER	DEPENDENT VARIABLE CP						
X/LB 1.0180 1.0462							
PH1 .00037983837 .000.0003830						į	9
ALPHA (4) = 7.875 BETA (1) =	.170 MACH = 1.2457		599.87	a	= 552.28	1/84	3.0533
SECTION (1) BODY FLAP UPPER	DEPENDENT VARIABLE CP						
X/LB 1.0180 1.0460							
FH1 .00037393765 40.00037593769							
ALPHA (5) = 11.893 BETA (1) #	-3.862 MACH = 1.2456	•	600.06	۵	* 552.51	Ž	3.02/B
SECTION (1) BODY FLAP UPPER	DEPENDENT VARIABLE CP						
X/LB 1.0180 1.0466							
1Hd 2504 7995 000. 40.000.04					,		
ALPHA (5) = 11,948 BETA (2) =	.178 MACH # 1.2456		600.05	Q.	* 552.51		= 3.0E/B
SECTION (11800Y FLAP UPPER	DEPENDENT VARIABLE CP						•
X/LB 1.0180 1.0460							
PH: .0003773390; 40.00040324175					i	i	
ALPHA (191 = 11.969 9ETA (3) =	4.251 MACH = 1.2456		60n.06	4 .	- 552.51	Ě	9.0679
SECTION E 1380DY FLAP UPPER	DEPENDENT VARIABLE CP						
XALB 1.0:80 1.0460							
1H4 080+*- 520+*- 000* 000*- 550+*- 000*							

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DATE 13 FEE	76	TABULATED PRESSURE DATA - DAT48 (AMES }	11-073-1 >					
	A	AMES 11-073:04148) -1404/8/C	VDCB BRO	ORB BODY FLAP UP		(XE8F83)	1 05	AUG 75)
	REFERENCE DATA	•				PARAMETRIC	: DATA	
• • •	MARP # 10	75.6800 IN. XO .0000 IN. YO 775.0000 IN. ZO			RUDDER = BDFLAP = R-ELVN =	10.000 -11.700 10.000	SPOBRK = L-ELVN = MACH :	
# =	.0350 = -3.943 BETA (1) *	.171 MACH = 1.0892	•	599.30	۵	* 708.59	RN/L	3.1942
2	(1) BODY FLAP UPPER	DEPENDENT VARIABLE CP						
X/LB	1.0130 1.0450							
## 200, 84 2000, 84	#604 7885 #101 #101							,
ALPHA (2)	065 BETA (1) =	.171 MACH = 1.0580	•	599.15	a.	716.01	1	3.1985
) W01103S	SECTION (1) BOOY FLAP UPPER	DEPENDENT VARIABLE CP						
X/1:B	1.0180 1.0460							
P#1 . 000 #6. 000	-, 392 + 1985 -							
ALPHA (3)	= 3.859 BETA (1) *	-3.876 MACH = 1.0981	o	= 598.75	a .	= 709.30	7.2	* 3.1983
SECTION	111835Y FLAP UPPER	DEPENDENT VARIABLE CP						
X/LB	1.0180 1.046d							
PH1 1000 1000	-, 4047 - , 4102							
ALPHA (3)	= 3.908 BETA (2) =	.189 MACH * 1.0991	o	598.75	c .	709.30	1/1	3.1983
::C11035	יין יים אין ארבוניין אים פניין יי	DEPENDENT VARIABLE CP						
X/LB	1.0180 1.0460							
PH;	38203849 38253883							

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	AMES 11-073(0A148) -140A/B/C	-140A/B/C	ORB BODY	ORB BODY FLAP UP		
ALPHA (3) = 3.913 BETA (3) :	= 4.2+3 MACH =	± 1.0981	ď	598.75	Q.	
SECTION (LICODY FLAP UPPER	DEPENDENT VARIABLE CP	NBLE CP				
4/18 1.0180 1.0+60						
1Hd .000. .38693874 000.04						
ALPHA (4) # 8.023 BETA (1)	# .173 MACH #	* 1.0972	x O	298.87	æ	•
SECTION (1) BODY FLAP UPPER	DEPENDENT VARIABLE CP	ABLE CP				
X/LB 1.0193 1.0450						
##550 1#56 ccc- ##500 1#56 ccc- ##600 1#56						
ALPHA (5) = [1,885 BETA (1)	= -3.856 MACH	* 1.0968	G	558.64	٠.	
SECTION (1)800Y FLAP UPPER	DEPENDENT VARIABLE CP	ABLE CP				
X/LB 1.0180 1.0460						
PH1 - CDD - +450 - CDD450 - CDD450						
ALPHA (5) = 11,954 BETA (2)	# .179 MACH	* 1.0968	ď	± 593.64	Q.	#
SECTION (1150DY FLAP UPPER	DEPENDENT VARIABLE CP	ABLE CP				
0540.1 0810.1 81/X						
PH1 .000						
ALPHA (5) = #1,963 DETA (3)	* 4.251 MACH	* 1.0968	o	. 598.64	a	
SECTION (1)800Y FLAP UPPER	DEPENDENT VARIABLE CP	ABLE CP				

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TABJLATED PRESSURE DATA - OAIMB (AMES 11-073-1)

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1.0180 1.0450

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(XESF84) AMES 11-07310A1481 -140A/B/C ORB BODY FLAP UP

PARAMETRIC DATA	RUDDER # 10.000 SPD9RX #	P * 1059.2 RN/L * 3.5885				P * 1060.7 FRVL * 3.5963	,. •			P * 1060.0 RM/L * 3.5819				P = 1060.0 RW/L = 3.5814			
		± 599,63				= 598.2B				≈ 598.3B				* 598.38			
		0				ø				ø				o			
		* .89930	RIABLE CP			# .B9770	RIABLE CP			× ,89803	RIABLE CP			€0868, €	RIABLE CP		
	1076.6800 IN, X0 0000 IN, Y0 375.0000 IN, 20	.165 MACH	DEPENDENT VARIABLE			.165 MACH	CEPENDENT VARIABLE			-3.885 MACH	DEPENDENT VARIABLE			. 164 PACH	DEPENDENT VARIABLE CP		
	XYRP # 1076 YYRP # 375					#				10 #				# 60 = 1			
REFERENCE DATA	2693.0300 50,FT. X 474.83300 IN. Y 936.06800 IN. Z	= -3,955 BETA	DBSSY FLAP UPPER	1.0180 1.0+60	-,2789 -,2953 -,2701 -,2650	057 BETA	DENOT FLAP UPPER	1.0180 1.0463		# 3.883 BETA	BIBODY FLAP UPPER	1.0180 1.0460	+.28092937 +.28552723	# 14,032 BETA	CTION (1) BOOK FLAP UPPER	1.0180 1.0450	+.25452802 +.25072742
	SCALL STATES	ALPHA : 13	SECTION (X/LB	000 000 101 01	ALPHA (2)	SECTION :	x/L8	PH. . 000 HG. 000	ALPHA (W	SECTION I	x/ra	## 500.00 144	ALEHA (W)	SECTION (x/re	P41 . 308 40. 638

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CATE 13 FEB 76 TABULATED PRES	PRESSURE DATA - DAI48 (AMES 11-273-1)	-073-1)		2 2 4 4 2	น้	PACE 57711
7. A.	AMES 11-073/04/481 -1404/8/C	OHE BODY FILAP UP				
A_PHA (B) = 3,999 BETA (B) = 1	4,248 MACH = .89803	0 = 598.38	ቢ	# 105D: D	₩.	±1.66000 円 ■
SECTION () BECY FLAP UPPER	DEPENDENT VARIABLE CP					
X/EB 1.0819 1.0450						
PH; .0008552328 .000.00						
A_PHA (4) = 8.003 BETA (1) =	.163 MACH = .89820	g = 598.16	۵.	± 1059.3	1/2	# 13.15THP
SECTION (1)BODY FLAP UPPER	DEPENDENT VARIABLE CP					
X/LB 1.0130 1.0460						
149 1997 - 95-41 - 000. 1989 - 05-41 - 000.04						
ALPHA (5) = 11.959 BETA (1) =	.169 MACH = .89570	g # 597.35	۵.	± 1051.4	-1 -2 	3.5769
SECTION () BODY FLAP COPER	DEPENDENT VARIABLE CP					
x/La 1.0190 1.0460						
PHI .000 - 2318 - 2804 .000.04 - 2578 - 2000						

DATE 13 FEB 76

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(XEBF85) AMES 11-073(0A148) -140A/B/C ORB BODY FLAP UP TABULATED PPESSURE DATA - DAIYB (AMES 11-073-1).

PARAMETRIC DATA	RUDDER = 10.000 SPDBRK = .000 BDFLAP = -11.700 L-ELVN = -10.000 R-ELVN = 10.000 MACH = .600	593.85 P = 2385.4 RN/L = 4.8166				593.87 P = 2387.i RN/L * 4.8288				595.04 P = 2386.4 RN/L = 4.8327				595.63 P - 2386.4 RN/L - 4.8284			
		. 593				0 - 593				0 = 595				265 = 0			
	1076.6800 IN. XO .0000 IN. YO 375.0000 IN. ZO	.164 MACH . 59620	DEPENDENT VARIABLE CP			.163 MACH = .59620	DEPENDENT VARIABLE CP		1 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	.160 MACH = .59680	DEPENDENT VARIABLE CP			.158 MACH = .59710	DEPENDENT VARIABLE CP		
REFERENCE DATA	SREF = 2690.0000 SQ.FT. XMHP = 1076 LPEF = 474.8000 IN. YMRP = 375 BREF = 936.0030 IN. ZMRP = 375 SCALE = 0330	ALPHA (1) = -3.903 BETA (1) =	SECTION (1) BODY FLAP UPPER	X/LB 1.0180 1.0450	PHI .00027793074 -0.00027972917	ALPHA (2) = .072 BETA (1) =	SECTION (1) BODY FLAP UPPER	X/LB :.0180 :.0450	PHI .00026953117 40.00026952887	ALPHA (3) = 4.077 BETA (1) =	SECTION / TIBODY FLAP UPPER	X/LB 1 0180 1.0450	PH1 .000 +.25992953 +0.000 +.27232773	ALPHA (4) # 9.047 BETA (1) #	SECTION : 11800Y FLAP UPPER	X/LB 1.0180 1.0460	PHI .003 8525 003

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TABULATED PRESSURE DATA - DAI48 (AMES 11-073-1)

(XE8F85)

2386.4

AMES 11-07310A1483 -140A/B/C

.59710 DEPENDENT VARIABLE CP .156 MACH =

BETA (1) =

12,046

ALPHA (5) =

DATE 13 FEB 75

SECTION (11800Y FLAP UPPER

1.0180 1.0460

X/LB

-.2854 -.2723

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ORB BODY FLAP UP

RN/L

2.9078 2.9079 2.907B 2.9103 PN PN **FR/**1 RN/L ZZ Z SPDBRK L-ELVN PARAMETRIC DATA £ 440.89 441.36 441.36 41.36 .000 ۵. 599.50 599.80 599.80 599.80 = 1.3933 = 1.3933 = 1.3933 -3.908 MACH * 1.3937 DEPENDENT VARIABLE CP DEPENDENT VARIABLE CP DEPENDENT VARIABLE CP DEPENDENT VARIABLE CP -3.881 MACH MACH MACH 1076.6800 IN. XO .0000 IN. YO 375.0000 IN. ZO <u> 10</u> 4.236 BETA (1) = = (£) BETA BETA BE-TA SECTION (13BODY FLAP LOWER SECTION (1)BODY FLAP LOWER SECTION (1) BOOY FLAP LOWER SECTION : IIBODY FLAP LOWER REFERENCE DATA 2690, 1000 50.FT. 474.8800 IN. 935.0880 IN. 1.0180 1.0460 1.0180 1.0460 1.0180 1.0460 1.0180 1.0460 ALPHA (1) # -4.099 ALPHA (1) # -4.099 -. 376 580 't-.1909 8481. C374 . 2394 . 1458 . **1812** ALFHA (2) = ALPHA (1) 40.000 40.000 , aga 900.04 40.000 X/LB X/1.B X/LB

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DATE 13 FEB 76 TABULATED F	TABULATED PRESSURE DATA - CAI48 (AMES 11-073-1	11-073-1				•	PAGE 5775	3775
	AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP LMR	VR ORB BODY	FLAP LWR		(XEBG01)			
ALPHA (2) =071 BETA (2) =	.147 MACH = 1.3937		. 599.50	•	# 440.89	RN/L	ru #	2.9103
SECTION (1) BODY FLAP LOWER	DEPENDENT VARIABLE CP							
X/LB 1.0180 1.0460				•				
PHI .000 .2514 .2337 .000 .045								
ALPHA (2) =059 BETA (3) =	4.215 MACH # 1.3937	Ö	599.50	۵	68·044 •	AN L	# .	.9103
SECTION (1) BODY FLAP LOWER	DEPENDENT VARIABLE CP							
X/LB 1.0180 1.0450						-		
PH1 .000 .2397 .2232 46.000 .1463 .0975						. * .	·.	
ALPHA (3) = 3.825 BETA (1) =	-3.904 MACH # 1.3940	a	= 600.01		= 441.12	RN/i		2.9038
SECTION (1) BODY FLAP LOWER	DEPENDENT VARIABLE CP							
X/LB 1.0180 1.0460								
PH1 .500 .3321 .3094 +0.000 .2+03 .16+0								
ALPHA (3) = 3.826 BETA (2) =	.146 MACH = 1.3940	0	* 600.01	۵	= 441.12	RNYL	*	.9038
SECTION / 13900Y FLAP LOWER	DEPENDENT VARIABLE CP							
X/L9 1.0180 1.0463								
PH1 .000 .3261 .3015 40.000 .2221 .1542								
ALP4A (3) = 3.827 BETA (3) =	4.205 MACH = 1.3940	O	. 600.01		- 4#1.12·	Ž	H.	. 9038
SECTION (1) BODY FLAP LOWER	DEPENDENT VARIABLE CP					-		
X/L9 1.0180 1.0460			•					. •
PHI .000 .33%2 .3056 P5.000 .1583								

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SECTION C 11803Y FLAP LOWER

AL^{CHA} (중) # 11.913

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1.0180 1.0460

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MACH

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DATE 13 FEB 76 TABULATED PR	PRESSURE DATA - 0A148 (AMES 11-073-1) AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP LMR	11-073-1) /R ORB BODY FLAP LE		(XE8601)		FAGE 5177
A_PHA (51 # 11.909 8ETA (3) =	4.219 MACH = 1.3941	0 = 599.51	a.	• 440.65	KN/L	10 JE 20
SECTION (1'BODY FLAP LOWER	DEPENDENT VARIABLE CP					
1.0180 1.0460						
PHI . 000 . 5424 . 4529 40.000 . 3947 . 3095						į
ALPHA (6) = 15.872 8ETA (1) =	-3.862 MACH = 1.3935	a 599.60	6	4 TAL 15	J.XE	- 2.9239
SECTION (1)BODY FLAP LOWER	DEPENDENT VARIABLE CP					
1,0180 1.0460	-		,			
PH1 . 000 _ 6373 . 5126 . 46. 000 _ 4847 . 3371					;	
ALPHA (6) = 15.885 BETA (2) =	.149 MACH = 1.3935	0 = 599.60	a .	* 441.12	Z.	¥ 2.9639
SECTION (1180DY FLAP LOWER	DEPENDENT VARIABLE CP	•				
1.0180 1.0460						
PHI . \$10 . 6369 . 5125 . 3532 . 3532				,	;	
4,PHA [67 = 15.901 BETA [3) =	4.249 MACH # 1.3935	0 = 299.60	a .	- 441.12	788/L	E 25.33
SECTION (11800Y FLAP LOWER	DEPENDENT VARIABLE CP					•
1,0180 1.0+50						
PH1 .000 .6283 .5132 .0000 .4722 .5532						

DATE 13 FEB 76	TABULATED PRESSURE DATA - DAINB (AMES 11-073-1)				a	PAGE 5778
	AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP LAR	LAP LIAR		()(E8002)	-	US AUG 75 3
BEEFERNOR DATA			•	PARAMETRIC DATA	DATA	
* 2690. * 474. * 935.	Xrffp = 1076.6800 IN. XO Yrffp = 0000 IN. YO OS .NI 0000 1.55	585	RUDDER * BDFLAP * R-ELVN *	. 000 . 000 . 000	SPOBRK = L-ELVN = MACH =	55.000 . 1.000 . 1.000
	BETA (1) * -3.888 MACH * 1.2475 0 *	599.57	•	550.40	17NB	3.0108
SECTION (1) BODY FLAP LONER	R DEPENDENT VARIABLE CP					•
X/LB 1.0180 1.0450						
PHI . 000		•				,
ALPHA (11 = -4.075 BETA	TA (2) = .154 MACH * 1.2475 0 =	599.57	<u>.</u>	950.40	FW/L	3.D108
SECTION (1) BOOY FLAP LOWER	R DEPENDENT VARIABL" CP					
X/LB 1.0180 1.0460						
PH1 .000 .2088 .1828 .0230 .04						
ALPHA (1) = -4.083 BE	BETA (3) = 4.234 MACH = 1.2475 0 =	599.57	•	- 550.40	AN L	3.0108
SECTION (1)BOOY FLAP LONER	R DEPENDENT VARIABLE CP					
K/LB 1,0180 1.0450						
PHI .000 .2058 .1633 40.000 .0981 .0371						1
ALPHA (21 *037 BE	BETA (1) = -3.909 MACH = 1.2477 Q =	599.51	<u> </u>	550.16	Z Z	3.0138
SECTION (1) BODY FLAP LOWER	R DEPENDENT VARIABLE CP					
X/LB 1.0180 1.0460						
PM1 . 000 . 2549 . 1415 . 0893						

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PAGE 5779	(XE8602)	P = 550.15 RN/L = 3.0131				P = 550,16 RN/L = 3.0131				P = 551.10 RN/L = 3.0140				P = 551,10 RN/L = 3,0140		•		P = 551.10 RN/L = 3.0140			
(AMES 11-073-1)	AMES 11-07310A148) -140A/B/C/R ORB BODY FLAP LWR	= 1.2477 0 = 599,51	E CP			1.2477 0 = 599.51	E CP			1.2468 0 = 599.65	E CP			1.2468 0 * 599.65	E CP			1.2468 0 = 599.65	E CP		
TABULATED PRESSURE DATA - DAI48 (AMES 11-073-1)	AMES 11-07310A148) -14	2) = .147 MACH = 1.	DEPENDENT VARIABLE CP			3) = 4.211 MACH = 1.	DEPENDENT VARIABLE CP			1) = -3.910 MACH = 1.	DEPENDENT VARIABLE CP			2) = .139 MACH = 1.	DEPENDENT VARIABLE CP			3) = 4.204 MACH = 1.	DEPENDENT VARIABLE CP		
DATE 13 FEB 75 TABU		ALPHA (2' =032 BETA (SECTION : IMBODY FLAP LOWER	X/LS 1.0180 1.0460	PHI . 040 . 2751 . 2265 40.040 . 1340 . 0779	ALPHA (2) #038 BETA (SECTION (1) BODY FLAP LOWER	X/L9 [.3:63 1.0460	P41. 252 . 2089 40.000 . 1432 . 0720	ALPHA (3) # 3.858 BETA (SECTION (1:80DY FLAP LOWER	X/LB 1.0180 1.0450	PHI . CÓD . 3580 . 2891 	ALPHA (31 # 3.853 BETA (SECTION (1) BODY FLAP LOWER	K/L9 1.0180 1.0460	PH; . C10 . 3548 . 2852 . C10 . 2238 . 1332	ALPHA (31 = 3.860 BETA (SECTION (1) BODY FLAP LOWER	X/LB 1.0180 1.0460	5-85. +858. DEC.

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DATE 13 FEB 76 TABULATED	TABULATED PRESSURE DATA - OAI48 (AMES 11-073-1	1-073-1				PAGE 5780	780
	AMES 11-073(04148) -140A/B/C/R ORB BODY FLAP LMR	R ORB BODY FLAP LUR		(XEBG02)			
A"PHA (4) = 7.842 BETA (1) =	-3.905 MACH = 1.2465	0 * 599.60	۵	* 551.34	FN /	m #	3.0137
SECTION (1'BODY FLAP LOWER	DEPENDENT VARIABLE CP						
X/LB 1.0190 1.0460		············.					
0202. 5018. 000.04 5055. 8484. 000.04							
ALPHA (4) # 7.841 BETA (2) =	.143 MACH = 1.2465	Q = 599.60	۵,	* 551.34	EN/L	M) H	3.0137
SECTION (1)BODY FLAP LOWER	DEPENDENT VARIABLE CP		•				
09-0'1 0810'1 eT/X							
145 1200 - 3458 145, 1358 145, 1458							
ALPHA (4) # 7,841 BETA (3) #	4.209 MACH = 1.2465	0 = 599.60	۵	* 551.34	FN/L	m m	3.0137
SECTION (11800Y FLAP LONER	DEPENDENT VARIABLE CP					1	
X/LB 1.0180 1.0460							
1Hd 2252. 3784. 000. \$5891. 5808. 000.04		·					
4(P44 (5) = 11.942 BETA (1) =	-3.887 MACH = 1.2452	0 * 599.20	۵	* 552.04	FRVL	mi M	3.0172
SECTION I FYBODY FLAP LONER	DEPENDENT VARIABLE CP						
X/L9 1.0180 1.0460							
145. 0185. 000.04 2904. 0542. 000.04							
ALPHA (51 m 11.952 BETA (2) m	.148 MACH = 1.2452	0 = 599.20	۵	± 552.04	REV.	W.	3.0172
SECTION (1) BODY FLAP LOWER	DEPENDENT VARIABLE CP						
X/LB 1.0180 1.0460							
PHI CGD : 5439 : 3355 CDD : 5439 : 5355							

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AMES 11-07310A148) -140A/B/C/R ORB BODY FLAP LWR TABULATED PRESSURE DATA - DAING (AMES 11-073-1)

≈ 599.20 O 4.215 MACH = 1.2452 ALPHA (5) = 11,946 BETA (3) =

DEPENDENT VARIABLE CP SECTION (1) BODY FLAP LOWER

1.0180 1.0460 X/LB

. 4002 . 2445 3760 PH1 .000 40.000

PAGE 5781

(XE8602)

RN/L

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TABULATED PRESSURE DATA - DAINB (AMES 11-073-1) DATE 13 FEB 76

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(85 AUG 75) (XEBG03) AMES 11-07310A148) -140A/B/C/R ORB BODY FLAP LWR

PAGE 5782

3.1665 3.1865 3.1968 N. N. T.E Ž N. N. PARAMETRIC DATA 710.72 .000 16.300 .000 27.017 710.72 100元 RUDDER = BOFLAP = R-ELVN = ø. 599.55 599.56 599.56 -3.881 MACH + 1.0978 = 1.0978 DEPENDENT VARIABLE CP DEPENDENT VARIABLE CP DEPENDENT VARIABLE CP DEPENDENT VARIABLE CP 1076.6800 IN. XO .0000 IN. YO 375.0000 IN. ZO MACH MACH ACH . 153 -3.903 4.236 BETA (1) = # & 3 איאי מאיאי מאיאי SE TA HE TA N. PHA 1 21 - - 027 BETA REFERENCE DATA SECTION (1) BODY FLAP LOWER SECTION (11800Y FLAP LOKER SECTION I IJBODY FLAP LOWER SECTION (1)BODY FLAP LOWER 2690,0000 50,FT. 474,8000 IN. 936,0660 IN. . 1926 . 0593 1.0180 1.0450 1.0:80 1.0460 1.0180 1.0450 1.0180 1.0463 ALPHA (1) + -+.048 ALPHA (1) = -4.035 ALPHA (1) = -4.094 .0993 .0993 . ¢332 .0527 .08+9 9H1 .090 ¥0.090 000.44 44.000 . 000 40.000 SREF = LPEF = BREF = SCALE = B ₹.× X/LB ī Ĕ R/K X/LB

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            AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP LMR
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TABULATED PRESSURE DATA - CAIMB ( AMES 11-073-1 )
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                                                                                                                                                                                                                                                                                                                                 4,201 MACH = 1.0982
                                                                                                                                                                                                                                                        = 1.0<u>9</u>82
                                                                                                                                                                                                                                                                                                                                               DEPENDENT VARIABLE CP
                                                                                                                                                                               = 1.0982
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                                                                                                       4.209 MACH # 1.0988
                                                                                                                                                                                               CEPENDENT VARIABLE CP
                               = 1.0988
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                                             DEPENDENT VARIABLE CP
                                                                                                                                                                                                                                                           .147 MACH
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                                 144 MACH
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                                     BETA
                                                                                                                                                                                                     SECTION : 1) BODY FLAP LONGR
                                                                                                                             SECTION ( 11800Y FLAP ( SWER
                                                    SECTION ( ) BODY FLAP LOWER
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DATE 13 FEB 76 TABULATED PR	PRESSURE DATA - DAI48 (AMES 11-073-1)	1-073-1						ď.	PAGE 5	5784
4	AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP LMR	7 ORB BC	JDY FLA	P LAR			(XEBGD3)			
ALPHA (4) = 7.00° BETA (1) =	+3,898 MACH = 1,0976	o	* 59	599.1D	۵.	•	710.49	1786	# (4)	3.1859
SECTION () BOOK FLAR LANGER	DEPENDENT VARIABLE CP									
X/XB 1.0180 1.0460										
PH1 . S03										
ALPEA (4) = 7,885 BETA (2) =	.144 MACH = 1.0976	5	# .	599.10	٠.		710.48	二三章	#	3. 1955
SECTION (1) BOOM FLAP LOWER	DEPENDENT VARIABLE CP									
X/LB 1.0180 1.0460										
7H7 1685. CB24. DG0. 1334. CG0.CG4										
ALPHA (4) = 7.825 BETA (3) =	4.200 MACH = 1.0976	O	#	599.10	<u>α</u>		T10.48	1	#	
SECTION (11803Y FLAF LOWER	DEPENDENT VARIABLE CP									
X/L8 1.0160 L.0450										
FER										
# LENA 18 51 = 11,980 357A 1 11 #	-3.881 MACH = 1.0978	o	*	599.38	۵		310.4B	毫	#	B. 1838
SECTION (1)800Y FLAP LOWER	DEPENDENT VARIABLE CP									
N/L8 1.0180 1.0460										
FH1 000 - 38485 - 000 - 18485 - 000 - 18485 - 000 - 18485 - 000 - 18485 - 1848										
ALPHA (5' = 11.39" BETA (2) #	149 MACH = 1.0978	ø	iii "	599.38	<u>α</u> .	Ŋ	84.01¢	Z NE	H Li	3. 1836
SECTION : INBODY FLAP LOWER	DEPENDENT VARIABLE CP									
03+0" 0310": e"/X										
239: 6122 000. 8232 8423 000. 6122 000.04							•			

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TABULATED PRESSURE DATA + 04148 (AMES 11-073-1)

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(XEDESEE) 7110.40

ANES 11-073104148) -1404/8/C/R 03B BODY FLAP LMR

599.38

= 1.0978

DEPENDENT VARIABLE CP 4.212 MACH

BETA (3) H

SECTION : INDUK FLAD LOWER

#35.11 + (E) APC.A

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1.0190 1.0460

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,这是一个人,我们也是一个人的,我们就会一个人的,我们的一个人的,我们就是一个人的,我们也不是一个人的,我们也不会一个人的,我们也会一个人的,我们也会一个人的, 1990年,我们就是一个人的,我们就是一个人的,我们就是一个人的,我们就是一个人的,我们就是一个人的,我们也不是一个人的,我们也不是一个人的,我们也会会会会会会 TABULATED PRESSURE DATA - DAIMB (AMES 11-073-1)

DATE 13 FEB 75

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PAGE 5786

3.5733 3.5733 2 RN-ES L PARAMETRIC DATA (XE8004) 1060.7 1059.7 1059.7 1059.7 .000 16.300 RUDDER BDFLAP R-ELVN AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP LMR 599.67 599.67 599.67 - 89827 **=** .89913 -3.880 MACH = .89913 DEPENDENT VARIABLE CP DEPENDENT VARIABLE CP DEPENDENT VARIABLE CP DEPENDENT VARIABLE CP -3.907 MACH Į, MACH 1076.6800 IN. XO .0000 IN. YO 375.0000 IN. ZO .153 4.237 BETA (1) = # @ (2)= XMAP YMRP ZMRP BETA BETA BETA SECTION C COBODY FLAP LOWER SECTION C DIBOON FLAP LOWER SECTION : INBODY FLAP LCHER SECTION (1)BODY FLAP LOWER REFERENCE DATA 2690.0000 50.FT. 474.8000 IN. 935.0080 IN. 1.0180 1.0469 .1045 1.0186 1.0460 1.0180 1.0450 1.0180 1.0460 ALPHA (1) = -4.047 - . 025 ALPHA (11 = -+.035 ALPHA (1) # -4.058 . 1821 3228 . 1951 1951 . 1537 4[PHA [2] = 000. 40.000 -000 -000 -000 000° B+ SPEF = SCALE = X/LB Ī e1/x e : / × X/LB

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PAGE 5787

DATE 13 FEB 76 TABULATED	TABULATED PRESSURE DATA - DAI+8 (AMES 11-073-1)	3-i 1			Ĭ.	PAGE DIGI
	AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP LMR	B BODY FLAP LWR		(XEBG04)		
A.PHA (2) = +.020 BETA (2)	a .144 MACH = .89827 0	= 599.10		1060.7	RN/L	3.5698
SECTION (1) BODY FLAP LOWER	DEPENDENT VARIABLE CP					
X/LB [.0180 1.0460				,		
PH1 .000 .3206 .1072 .000.000 .1831 .0165				,		
ALPHA (2) =027 BETA (3)	= 4.215 MACH * .89827 0	* 599.10	.	1060.7	RN/L	9,000 1,000
SECTION (1) BODY FLAP LOWER	DEPENDENT VARIABLE CP					
X/LB 1.018C 1.046C						
PHI .000 .2978 .0969 .00.00.04					;	ž L t
ALPHA (3) # 3.898 BETA (1)	± -3.912 MACH ≠ .89833 0	* 598.89	• · · · · · · · · · · · · · · · · · · ·	1060.2	FEN L	6.0764
SECTION (1) BODY FLAP LOWER	DEPENDENT VARIABLE CP					
X/L3 1.0180 1.0460						
PHI . 000 . 3+98 . 1203 . 0473 . 2473		a - e *		•	į	
ALPHA. (3) = 3.896 BETA (2)	152 MACH89833 0	s 598.89	# OL -	1060.2	FR/F	* 5.0764
SECTION (1)BODY FLAP LOWER	DEPENDENT VARIABLE CP					
X/LB 1.0180 1.0450						
PH1 . 1525. DDQ. . DDQ . 040. DDQ . 04550. 7615. DDQ . D4					:	ŧ
ALPHA (3) = 3.899 BETA (3)		598.89	# C .	1060.2	487	0.076
SECTION (1)BODY FLAP LOWER	DEPENDENT VARIABLE CP					
X/LB 1.0180 1.0450				•		
PH1 .000 .3510 .1207 .0031 .0031						

111.0% 114.077 114.077

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DATE 13 FEB 76 TABULATED PRESSURE DATA - DAIY8 (AMES 11-073-1)	ÆS 11-073-		,			Ą	PAGE 3/88
AMES 11-07310A148) -140A/B/C/R ORB BODY FLAP LWR	/B/C/R 0RB I	BODY FLAP LWR		(XE	(XEBGD4)		
ALPHA (4) = 7.895 BETA (1) = -3.903 MACH = .89900	00 0	* 599.51	a .	- 1059.7		1/2	3.5708
SECTION (1) BODY FLAP LOWER DEPENDENT VARIABLE OF	a						-
X/LB 1.0180 1.0460							
PHI .000 .3922 .1354 40.000 .2581 .0572							
ALPHA (4) = 7.900 BETA (2) + .140 MACH * .89900	0 00	= 599.51	C	- 1059.7			* 3.5708
SECTION (1) BODY FLAP LOWER DEPENDENT VARIABLE CP	à						
X/LB 1.0180 1.0460							
PH!						,	
11	0 00	= 599.51	٥.	= 1059.7		RN/L	# 3.570B
SECTION (1) BODY FLAP LOWER DEPENDENT VARIABLE CP	۵.						
X/LB I.0180 1.0453				• .			
PH: .000 .3527 .1304 40.000 .2235 .0052							;
ALPHA (5) = 11.985 BETA (1) = -3.890 MACH * .89830	30 0	* 599.10	۵.	1060.7		17. 1.	* 3.5735
SECTION (1)300Y FLAP LOWER DEPENDENT VARIABLE (£			Ay.			•
X/LB 1.0180 1.0460			•				
#821. 2054. 200. #851. 2054. 200. #1#D. 2575. 200.04	,						,
AL라보 [함) # 11.993 BETA (2): # .152 MACH # .89830	330 0	- 599.10	Q.	- 1060.7		1	3.5755
SECTION (F.BODY FLAP LOWER DEPENDENT VARIABLE CP	٠ <u>٩</u>						
XXLB 1.0180 1.0%60							
FHI . 000 . 4168 . 1419 45. 000 . 2584 . 0231							

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0.70% 0.70% 0.70% 0.70% 0.70% 0.70% 0.70% 0.70%

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AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP LUR

= .89830 4.222 MACH BETA (3) # 11,982 = 11,982

DEPENDENT VARIABLE CP SECTION I ITBODY FLAP LOWER

1.0180 1.0460 R.LB

PHI .000 40.000

.4161 ,1359 .2457 -.0033

(XE8G04) 1060.7

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3.5735

PAGE 5789

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,	55.000 .000 .600	- 4.8 118				4.8118				# 4.5118				# 4.8118	
DATA	SPDBRK = L-ELVN = MACH =	RN/L				RN/L				RN/L				FN/L	
PARAMETRIC DATA	.000 16.300 .000	= 2387.2			·	= 2387.2				- 2387.2				= 2387.2	
	RUDDER = BDFLAP = R-ELVN =	, a				Q .				۵				۵	
		593.15				593.15				- 593.15				593.15	
		a				a				0				o	
	1076.5800 IN. XO .0000 IN. YO 375.0000 IN. ZO	-7.893 MACH = .59580	CEPENDENT VARIABLE CP			-3.877 MACH = .59580	DEPENDENT VARIABLE CP			.156 MACH = .59580	DEPENDENT VARIABLE CP			4.231 MACH = .59580	DEPENDENT VARIABLE CP
REFERENCE DATA	SREF = 2690.0000 \$Q.FT. XMRP = 10* LREF = 4.74.8000 IN. YMRP = 3* BREF = 9.86.0690 IN. ZMRP = 3* SCALE = .0300	ALPHA (1) = -3.996 BETA (1) =	SECTION (1) BODY FLAP LOWER	X/LB 1.0180 1.0460	0410 - 0535 - 000 - 040 - 0516	ALPHA (1)3.981 - JETA (2) #	SECTION (1380DY FLAP LOWER	1.0180 1.0460	PHI . GDC . 2457 . D164 	ALPHA (1) = -3.973 EETA (3) =	SECTION (1) BODY FLAP LOWER	X/LB 1.0180 1.0460	PHI . 055 00. . 00 0551. 00.00+	ALPHA (1) = -3.981 BETA (4) =	SECTION (1)BODY FLAP LOWER

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1.0180 1.0460

X/LB

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DATE 13 FEB 76 TABULATED) PRESSURE DATA - CAIHB (AMES 11-073-1	11-073-1			•		PAGE 5791
	AMES 11-073(04148) -140A/B/C/R ORB BODY FLAP LMR	R ORB BODY FLA	P LWR		(XE8605)	(92)	
ALPHA (1) = -3.995 BETA (5) =	= 8.308 MACH = .59580	. 56 	593.15	۵	* P387.2	FN/L	■ 4.81:8
SECTION (1)BODY FLAP LOWER	DEPENDENT VARIABLE CP						
X7LB 1.0180 1.0460							
PHI . 350 . 2325 . 0020 96.000 . 1186 0733							
ALPHA (2) = (01 BETA (1) =	7.930 MACH + .59552		592.56	۵	* 2387.2	RN/L	- 4.BD92
SECTION (1) BODY FLAP LOWER	DEPENDENT VARIABLE CP						
X/LB 1.0180 1.0460							
PH1 . 000 . 2651 . 0218 . 000 0 . 1750 0190							
= (5) = 1008 BETA (2) =	-3.896 MACH = .59552	# C	592.56	۵	* 2387.2	RN/L	= 4.B092
SECTION (11800Y FLAP LOADR	DEPENDENT VARIABLE CP						
X118 1.0180 1.0460						-	
PHI .500 .2524 .0182 .000 .16520351							
ALPHA (2) = .009 BETA (3) =	. 144 MACH * .59552	. 5E	592.56	۵.	* 2387.2	RN/L	= 4.B092
SECTION (1) BODY FLAP LOVER	DEPENDENT VARIABLE CP		•				
x/LB 1.0180 1.0460							
PHI . 000 . 2575 . 000. 90.004 . 5441.							
ALPHA (2) = .008 BETA (4) =	4.214 MACH # .59552	0 = 55	592.56	۵.	= 2387.2	RN/L	= 4.8092
SECTION (1)BCDY FLAP LOWER	DEPENDENT VARIABLE CP						
X/LB 1.0180 1.0460							
PH1 . 36 d . 2564 . 1158 40.00 d . 1330 - 13 56							

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DATE 13 FEB 76 TABULATED PRESSURE DATA DAINB (AMES 11-073-1)					PAGE 5792
AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP LAR	Y FLAP LHR		(XEB605)		
ALPHA (2) = .003 BETA (5) = 8.269 MACH = .59552 0	592.56	۵	= 2387.2	RNAL	± 4.8092
SECTION I I'BODY FLAP LOKER DEPENDENT VARIABLE CP			-		
X/LB 1.0180 1.0460					
FM1 . 020 . 2644 . 0102 90.000 . 198 0646					
ALPHA (3) = 3.907 BETA (1) = -7.936 MACH = .59500 Q	591.7	٠.	2387.9	ANA.	* 4.8063
SECTION I DECOY FLAP LOWER DEPENDENT VARIABLE CP					
X/LB 1.0180 1.0460					
PHI .010 .2878 .0283 .010.010 .1899 +.0192	· .				
ALPHA (3) = 3.912 BETA (2) = -3.897 MACH = .59500 0	F 591.74	o	• 2387.9	Z Z	# 4.EC53
SICTION (1) BODY FLAP LOWER DEPENDENT VARIABLE CP					
X/LB 1.0180 1.0460					
948. 000. PF 6180. + 6481. 000. PF					
ALPH4 (3) = 3.909 BETA (3) = .143 MACH = .59500 Q	≈ 591.74	a	• 2387.9	RN/L	* 4.8083
SECTION (1) BODY FLAP LOWER DEPENDENT VARIABLE CP					
C94J 1 0810 1 0423					
PHI . 305 . 2754 . 3210 . 3060 . 1617 - 3397					
ALPHA (3) = 3.918 BETA (4) = 4.207 MACH = .59500 0	- 591.74	۵.	= 2387.9	RN/L	# 4.80€3
SECTION (1:800)Y FLAP LOWER DEPENDENT VARIABLE CP					
X/LB 1.0180 1.0450					
1Hd . S00 . 2789 . 0212 - 30.CG - 0492					

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DATE 13 FEB 76 TABULATED P	PRESSURE DATA - DAILYB (AMES 11-073-1	1-073-1 1		PAGE 5793	133
	AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP LAR	R ORB BODY FLAP LUR	(XEBGD2)	05)	
ALPHA (3) = 3.922 BETA (5) =	8.252 MACH = .59500	ተር 165 # 0	P = 2387.9	RN/L =	4.8053
SECTION (1180DY FLAP LOWER	DEPENDENT VARIABLE CP				
X/LB 1.0180 1.0460					
PHI . 000 . 2871 . 0184 . 0.000 . 1476 6456					
ALPHA (4) = 7.956 BETA (1) =	-7.918 MACH = 59428	0 = 590.57	р. = 2388.9	RBI/L =	4.8012
SECTION 1 13BODY FLAP LOWER	DEPENDENT VARIABLE CP				
X/LB 1.0:80 1.0+60					
PHI . 300 . 3090 . 0335 . 40.000 . 2054 0093	ugua yakaban ar (a) (
ALPHA (41 = 7.965 BETA (2) =	-3.894 MACH = .59428	0 = 590.57	P = 2388.9	RNZ	4.8012
SECTION (1) BODY FLAP LOWER	DEPENDENT VARIABLE CP				
X/L3 1.0180 1.0460	ay e maga war				
FHI . 000 . 3046 . 0359 40.000 . 1983 0258	Ann when use May Try				
ALPHA (4) = 7.970 BETA (3) =	.145 MACH = .59428	0 = 590.57	Р = 2388;9	EN/L =	4.8012
SECTION (1)BODY FLAP LOWER	DEPENDENT VARIABLE CP			•	
K/L9 1.0:80 1.0%5					
PH1 .000 .3028 .0365 PD.900 .18200284	energy edge offer				
ALPHA (4) = 7.959 SETA (4) =	4.261 MACH # .59428	0 = 590.57	p = 2388.9	FN/L	4.8012
SECTION # 1) BODY FLAP LOWER	DEPENDENT VARIABLE CP				
X7L9 1.0180 1.0460					
PHI .000 .3068 .0371 49.000 .15620296	, , , , , , , , , , , , , , , , , , ,				

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DATE 13 FEB 78 TABULATED	PRESSURE DATA - DAIHB (AMES 11-073-1)	11-073-1)			-	PAGE 5794
	AMES 11-073(0A148) -140A/B/C/R OR3 BODY FLAP LMR	C/R ORZ BODY FLAP LWS		(XEBBND)		
ALPHA (4) = 7.967 BETA (5) =	8.254 MACH # .59428	0 = 590.57	٩	- 2388.9	RN/L	■ 4.8012
SECTION (1'BODY FLAP LOWER	DEPENDENT VARIABLE CP					
X/LB 1.0180 1.0460						
PH1 .000 .3083 .0244 .000.04						
ALPHA (5) = 12,002 BETA (1) =	-7.881 MACH = .59502	98.165 • 0	۵.	- 238B.2	RN/L	4.8047
SECTION (1) BODY FLAP LOWER	DEPENDENT VARIABLE CP					
X/LB 1.0180 1.0460						
PH1 .000 .3503 .0473 40.000 .22110020						
ALPHA (\$) = (2.020 BETA (2) =	-3.874 MACH ≥ .59502	Q = 591.86	Q.	- 2388.2	RN/L	7+08.4 ·
SECTION (1) BODY FLAP LOWER	DEPENDENT VARIABLE CP					
X/LB 1.0180 1.0460						
2520. 3318, 000. - 000.04 - 000.05						
ALPHA (5) = 12.028 8ETA (3) =	.150 MACH = .59502	g * 591.86	۰	= 2388.2	ZZ.	- 4.8047
SECTION ! INBODY FLAP LOXER	DEPENDENT VARIABLE CP					
X/LB 1.0180 1.0460						
149. 0335. 000. 1750. 0335. 000. 1750. 7105. 000.04						
ALPHA (5) = 12.028 BETA (4) =	4.211 MACH = .59502	0 = 591.86	۵	= 2388.2	RINT	- 4.8047
SECTION (1)BODY FLAP LOWER	DEPENDENT VARIABLE CP					
X/LB 1.6180 1.0460						
PH1 .3258 .0489						

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TABULATED PRESSURE DATA - DAINB (AMES 11-073-1)

DATE 13 FEB 76

AMES 11-073(04148) -1404/B/C/R ORB BODY FLAP LMR

591.86 o .59502 DEPENDENT VARIABLE CP MACH 8.278 BETA (5) = SECTION (1) BODY FLAP LOWER ALPHA 6 5) = 12.020

1.0180 1.0460 B1/X

.3284 .0424 .1763 -.0393 РН1 .000 +0.000

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(XEBG05)

RN/L 2388.2

* 4.8047

TABULATED PRESSURE DATA . CA14B (AMES 11-073-1) DATE 13 FEB 75

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PAGE 5796

4.8396 SPCBRK = L-ELVN -3 2387.0 .000 22.500 .000 RUDDER * BOFLAP * R-ELYN * ۵. 593.39 ø **.** 59594 DEPENDENT VARIABLE CP 1076.6800 IN. XO .0000 IN. YO 375.0000 IN. ZO -7.883 MACH BETA (1) = XMRP YMRP ZMRP SECTION (1) BODY FLAP LOWER 2690.0000 59.FT. 474.8000 IN. 936.0580 IN. ALPHA [] = +4.026 BREF # SCALE #

2387.0 593.39 ø .59594 -3.877 MACH : (2) BETA ALPHA 1 11 # 14.010 40, 690 40, 690 ī

1.0180 1.0450

X/LB

4.8396

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2387.9

593.39

CEPENDENT VARIABLE CP SECTION (1) BODY FLAP LOWER

1.0180 1.0450 .3633 .1054 .2538 .446 40,480 40,480 X/LB ī

ø DEPENDENT VARIABLE CP **HACH** 154 33 BETA SECTION (1) BODY FLAP LONER 1,0180 1.0450 -3.994 ALPHA 1 :1 = X/LB

¢ MACH . 4.235 1 7 ALPHA (11 # -4.001 BETA .3820 .2334 PHI 5000.04

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DEPENDENT VARIABLE CP SECRION (I)BODY FLAP LOWER 1,0180

1.0460 941 000 40.030

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	AMES 11-07310A148) -140A/B/C/R ORB BODY FLAP LWR	FLAP LWR		(XEBGDB)		
ALPHA (1)4.013 BETA (5) =	8.308 MACH # .59594 Q #	593.39	<u>a</u>	= 2387.D	J/NG	9628°∺ +
SECTION (1) BODY FLAP LOWER	DEPENDENT VARIABLE CP					
09501 081011 8T/K						
FPF1						•
ALFIHA (2) = .023 BETA (1) =	-7.929 MACH * .59530 Q =	593.84	۵.	= 23B5.7	FN/L	4.8179
SECTION (1) BODY FLAP LOWER	DEPENDENT VARIABLE CP					
X 74.50						
1885. 200. 1990. 7455. 200. 1990. 7455.						
ALPHA (2)	-3.896 MACH * .59630 0	593.84	۵	= 2385.7	RNIL	# 4.8179
SECTION (1) BODY FLAP LOWER	DEPENDENT VARIABLE CP					
0940:1 0810:1 E7/X						
PH: .000 .3653 .1073 40.000 .2877 .0472						
ALPHA (2) = .035 BETA (3) =	- 147 MACH = .59630 0 =	593.84	α.	= 2395.7	RNYL	4.8179
SECTION (1)BODY FLAP LOWER	DEPENDENT VARIABLE CP					
1.0180 1.0463						
PHI .000 .3778 .1129 40.000 .2555 .0317						
ALPHA (2) = .050 BETA (4) =	4.214 MACH = .59630 Q =	593.84	۵	2385.7	₹ Æ	± 4.8179
SECTION (!) BODY FLAP LOWER	DEPENDENT VARIABLE CP					
X/LB 1.0180 1.6460						
PH1 .000 .3693 .1099 .000.09						

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24E 13 FEB 76	76	F -	TABULATED	ATED F	RESSURE	DATA	8	PRESSURE DATA - DAIMB (AMES 11-073-1)	11-073-1	_					Ω.	PAGE 5798	_
					ANICS 11	-073(0A148	ANES 11-073(0A148) -140A/B/C/R CRB BODY FLAP LWR	1/R CRB B	ODY F	LAP LMR		=	(XEBGDB)			
ALPHA (2) +	. D.40	BETA	_	100	9.269		MACH	- 59630	ø	ĸ	593.84	۵.	<u>~</u>	2385.7	PN/L	BC18.4 .	ξ.
SECTION (1'BODY FLAP LOWER	BOOT FLAP	LOWER			1 30	ENDER	IT VAR	DEPENDENT VARIABLE CP									
אירם ו	1.0163 1.0	1.0460															
940 000 40.000	.3875 .1 .2253 .0	.1038 .0055															
ALPHA (3) =	3.911	BETA	_	= ==	-7.932 MACH	¥		# . 59594	a	W	593.13	۵	₩ *	2385.0	NA.	9±118.4 =	ω ‡
SECTION (1) BODY FLAP LOWER	BODY FLAP	LOWER			930	ENDER	IT VAR	DEPENDENT VARIABLE CP									
גערפ	1.0:35 1.0	1.0460					•										
PH1 .080 .04	ម្ភាស្ត្រ ស្ត្រាស្ត្រ ស្ត្រាស្ត្រ ស្ត្រាស្ត្រ	. 157															
ALPHA (31 =	3.915	BETA	~		-3.897		МАСН	+6565; =	a	*	593.13	α.	ស់ *	2385.0	, i	9元1番「オ #	φ.
SECTION 1	THEODY FLAP LOWER	LONER			DEP	ENDEN	IT VAR	DEPENDENT VARIABLE CP									
X/L3	1.0190 1.0	1.0450															
PH: .080 40.030	E. 8104.	. 1207 . dai 7				ř											
ALPHA (31 a	.015	BETA	_	31 #	. 150		MACH	₩ .59594	ø	#	593.13	n.	ល់ *	2385.8	17.5	G+16-7	m .i
SECTION 6	CHOCK FLAM LONER	1 LONER			059	ENDER	IT VAR	DEPENDENT VARIABLE CP								•	
1 en/k	1.018B 1.d	1.0460															
PH1 .038 40.038	고 () 라 () 라 ()	. 0357															
ALPHA I 51 H	# .00	出TA	-	ā T	4.204		MACH	± 59594	a	¥	593,13	۵	ស់ *	2385.B	T/NE	±. B]±5	មា រ
SECTION ()	LYBOOK FLAG LOWER	LOVER			830	ENDE	IT VAR	DEPENDENT VARIABLE OP									
x/kB	1.0190 1.0	1.3450							,								
144 1650 1600 1600 1600	######################################	5 € 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6															

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CATE 13 FEB 76 TABULATED PRESSURE DATA - DAIMB (AMES 11-073-1)	148 (AMES 11-	.073-1				<u>n.</u>	PAE: 5739
AMES 11-073(0A148) -1404/B/C/R ORB BODY FLAP LMR	140A/B/C/R	OR8 800	Y FLAP LWR		CXEBGERIA		
ALPHA (3) = 3.925 米TA (5) = 8.246 MACH =	- 59594	0	= 593.13	Ċ.	# 2335.B	<u> </u>	公 式(8) (7) (4)
SECTION (1) BODY FLAP LOKER DEPENDENT VARIABLE OF	IABLE CP						
X/15 1.00480 1.00480							
1401, 2714, 050, 04 5710, 853, 000, 04							
ALPHA (4) = 7.957 BETA (1) = -7.908 MACH =	= .59812	6	= 593.49	Œ.	= 2385. 7	<u>₹</u>	10 TO
SECTION (1) BODY FLAF LOWER DESCRION (1) BODY FLAF LOWER	IABLE CP						
X/LB 1.0:93 1.0460							
1 日本 1 日本							
ALF는과 (무) = 7.98G BETA (2) = -3.891 MACH =	= ,59512	ø	= 593.49	Ð.	= 2385.7	.1 Ž	100 · 1
SECTION (1) BOOY FLAM LOWER DEPENDENT VARIABLE OF	I ABLE CP						
XALB I.018D I.O460.							
1Hdi - 000 - 3598 - 0058 - 0000 - 0058							
ALPHA (4) = 7,972 BETA (;3) = .145 MACH :	= ,59512	a	= 593.49	a.	# 15 S	7 <u>7</u>	
SECTION (1) BODY FLAP LONDA DEPENDENT VARIABLE CP	1ABLE CP						
+ ### ################################							
##: 000.04							
ALPHA (4) = 7.971 BETA (4) = 4.201 MACH :	59512	ø	= 593.49	۵.	= £3 85.7	Æ	# In:
SECTION (1) BOOM FLAP LOWER DEPENDENT VARIABLE CP	HABLE CP						
X/LB 1.0180 1.0460 :							
* (2) (1855年、 ここの) (14) (15) (15) (15) (15) (15) (15) (15) (15							

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DATE 13 FEB 78	TAPULATED		SEURE E	ATA - (DA 148	PRESEURE DATA - 04148 (AMES 11-073-1)	1-073-1	_		•			ď	PAGE 5800	0085
		AX	0-11 S3	173 CA1"	6	AMES 11-073(CA148) -140A/B/C/R ORB BODY FLAP LAR	R 098 B	700	LAP LUR			(XEBG05)			
ALPHA (4) # 7.959	BETA (5)	ш	8.255	MACH	#	. 59612	0	*	593.49	•	#	2385.7	RN/L	,	4.8178
SECTION (FIBODY FLAP LONER	LOWER		DEPEN	DEPENDENT VARIABLE CP	AR I AB	LE CP									
X/LB 1.0180 1.0460	145G														
1. 3544. 000. 0. 7475. 000.04	.1165 .0165			*											
ALPHA (5) = 12.008	BETA (1)	*i	-7.872	MACH	H	.47710	0		475.06	۵		1908.:	RNAL	# 47	3.8563
SECTION I I) BODY FLAP LONER	LOWER		N3430	DEPENDENT VARIABLE CP	IR I AB	LE CP									
X/LB 1.0180 1.0460	450														
1Hd 11. 2:74. 533. 14. 5358. 630.04	. 1414 . 0832														
ALPHA (5) = 12.030	BETA (? 3	H.	-3.872	MACH	H	.47710	0		475.06	۵	-	1908.1	PRVL	N Lej	3.8563
SECTION (1)BODY FLAP LOWER	LOWER		DEPEN	DEPENDENT VARIABLE CP	IR I AB	LE CP									
X/LB 1.0180 1.0460	.+60														
PH1 .000 .4575 .1: .01.000 .3432 .0:	.1472 .0738														
ALPHA (5) = 12.036	BETA (3)	H	. 140	MACH		.47710	0	•	475.06	۵		1908.1	RN/L	ii M	3.8563
SECTION 1 118CDY FLAP LOWER	LOWER		DEPEN	DEPENDENT VARIABLE CP	RIAB	LE CP									
X/18 1.0180 1.0460	460								٠						
11. 4684. 030.D4	. 1438														
ALPHA (5) # 11.949	BETA (4) =	H	4.211	MACH		01774.	o	Ħ	475.06	۵	-	1908.1	FN F	M.	3.8563
SECTION (11800Y FLAP LOWER	LOWER		DEPEN	DEPENDENT VARIABLE CP	RIAB	LE CP									
X/L8 1.0180 1.0450	450														
11. E+9+, 000,0+	. 1401 . 0396														

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TABULATED PRESSURE DATA - DAIMB (AMES 11-073-1) DATE 13 FEB 76

ANES 11-073(0A148) -140A/B/C/R ORB BODY FLAP LMR

1908.1 = 475.06 O 8.275 MACH = .47710

DEPENDENT VARIABLE CP BETA (5) = SECTION (1'BODY FLAP LOWER A_PHA (5) = 12.026

1.0180 1.0460 ×′.′¤

300°. 900°. 900°. 90°.

.1331 .4687 .2926

PAGE 5801

(XE8G06)

= 3.8563

RAIL

(3)

ALPHA (1) = -4.057 BETA

.4234 .2389 .2630 .1234

40.600

SECTION (1)BODY FLAP LOWER

1.0180 1.0460

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.3928 .2179 .2929 .0968

+a, 388

3.5834

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= 1059.5

599.81

Z

= 1058.5

601.03

SECTION (1)BODY FLAP LOWER

.013

4 (2) #Ha W

1.0180 1.0460

X/LB

. 1484

.2918

3.5834

PN-

* 1059.5

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599.81

SPOBRK L-ELVN MACH

.000 22.500 .000

RUDDER -BOFLAP -R-ELVN -

XMRP = 1 YMRP = ZMRP =

2690,0000 SQ.FT. 474,8000 IN. 936,0680 IN.

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REFERENCE DATA

CATE 13 FEB 76

ALPHA (1) = -4.068 BETA (1) =

SECTION (1) BODY FLAP LOWER

1.3180 1.0460

W/LB

PARAMETRIC DATA (XE8607)

AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP LMR

TABULATED PRESSURE DATA - DAI48 (AMES 11-073-1)

06 AUG 75) PAGE 5802

3.5834

= 1059.5

599.81

<u>.</u>

ALFHA (1) = -4.048 BETA

. 2273 . 1282

.3999

-1.00 -1.00

SECTION (1)BODY FLAP LOWER

..0180 1.0460

X/LB ;

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PATE 13 FEB 76 TABULATED	PRESSURE DATA - DAIMB (AMES 11-073-1)		PAGE 5803
	AMES 11-07310A148) -140A/B/C/R ORB BODY FLAP LWR	(XE8607)	
ALPHA (2) = .014 BETA (2) =	.148 MACH = .90060 Q = 601.03	P * 1058.5 RN/L	3.5880
SECTION : 1:800Y FLAP LOWER	DEPENDENT VARIABLE CP		
X/L9 1.0180 1.0460			
PH1 .000 .4199 .2321 40,000 .2837 .1268			
ALPHA (2) = .013 BETA (3) =	4.211 MACH = .90060 Q = 601.03	P = 1058.5 RN/L	3.5880
SECTION (1)800Y FLAP LOWER	DEPENDENT VARIABLE CP		
X/LB 1.0180 1.0460			
PHI . 020 . 3915 . 2212 . 000.04			
ALPHA (3) = 3,998 BETA (1) =	-3.905 MACH = .90070 Q = 600.82	P * 1058.0 FN/L	* 3.5882
SECTION (1)BODY FLAP LCMER	DEPENDENT VARIABLE CP		
X/L8 1.0180 1.0460			
PHI . 500 . 4532 . 2446 40.006 . 3687 . 1622			
ALPHA (3) = 4.002 BETA (2) =	.135 NACH * .90070 Q * 600.82	P * 1058.0 RN/L	3.5882
SECTION (1)BODY FLAP LONER	CEPENDENT VARIABLE CP		
X/LS 1.0180 1.0460			
PHI .000 .4570 .2395 .0.000 .3358 .1262			
ALPHA (3) = 3,920 BETA (3) =	4.206 MACH = .90070 0 = 600.82	P * 1058.0 FNVL	= 3.5882
SECTION (1)BODY FLAP LONER	DEPENDENT VARIABLE CP		
X/LB 1.0180 1.0450			
PH1 .900 .4597 .2437 .40.000 .3126 .1026			

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DATE 13 FEB 76 TAI	BULATED P	PRESSURE DAT	9 1	TABULATED PRESSURE DATA - DAIMB (AMES 11-073-1	11-073-1	_					2	PAGE 5804	30 4
		AMES 11-073	CDA148	AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP LAR	7R ORB BOC	<u>ا</u>	AP LMR		CXE	(XEBG07)			
ALPHA (4) = 7,946 BEIA		-3.900 M	MACH	* .89867	o		599.20	٥.	1059.9		RNAL	H FO	3.5837
SECTION INBODY FLAP LOWER		DEPENDE	NT VAF	DEPENDENT VARIABLE CP									
X/LB 1.0180 1.0460													
PHI .000 .5123 .2585 40.000 .4057 .1516													
ALPHA (4) = 7.956 BETA	(2) *	. 143 M	MACH	* .89867	0		599.20	۵	- 1059.9		7X	P 3	3.5837
SECTION (1) BODY FLAP LOWER		DEPENDE	NT VAF	DEPENDENT VARIABLE CP									
X/LB 1.0180 1.0460													
PHI .000. .000. .000.04													
ALPHA (4) = 7.955 BETA	(3) H	4.206 M	MACH	× .89867	o		599.20	۵	= 1059.9		RN'L	H (M)	3.5837
SECTION (1)BODY FLAP LOWER		DEPENDE	NT VAF	DEPENDENT VARIABLE CP									
X/LB 1.0180 1.0460													
184 1055. 5012. 330. 40.000.3+					·								
ALPHA (5) = 11.987 BETA	H (!)	-3.885 M	МАСН	F+668. =	ø		599.58	۵	= 1059.5		RN/L	#	3.5879
SECTICN (1)BODY FLAP LOWER		DEPENDE	NT VAF	DEPENDENT VARIABLE CP									
X/LB 1.0180 1.0460													
PHI .000 .5581 .2651 .000.04													
ALPHA (5) = 11.997 BETA	• (S)	148	MACH	± .89947	o		599.98	۵	1059.5		PN/L	(*) H	3.5879
SECTION (1) BODY FLAP LONER		DEPENDE	NT VA	DEPENDENT VARIABLE CP					-				
X/LB 1.018D 1.0%60													
PHI .000 .5576 .2634 .000.04													

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TABULATED PRESSURE DATA - DAIMB (AMES 11-073-1) 04TE 13 FEB 76

PAGE 5805

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AMES 11-073(0A148) -140A/8/C/R ORB BODY FLAP LAR σ ₹ .85947 4.223 MACH BETA (3) = ALPHA (5) = 11.987

1059.5

DEPENDENT VARIABLE CP SECTION (1'BODY FLAP LOWER

1.0180 1.0460 X/LB

. 3800 PH1 .000 40.000

PAGE 5806	(XEBGDB) (D5 AUG 75)	PARAMETRIC DATA	RUDDER ** .000 SPDBRK * B5.000 BDFLAP ** 22.500 L-ELVN * .000 R-ELVN ** .000 MACH * 1.400	p = 439.24 RN/L = 2.9156				P = 439.24 RN/L = 2.9165				P = 439.24 RN/L = 2.9166				P = 439.00 RN/L = 2.9175			
11-073-1)	TR ORB BODY FLAP LHR			0 = 598.61				0 = 598.61				0 = 598.51				0 = 598.93			
TABULATED PRESSURE DATA - DAI48 (AMES 11-073-1	AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP LMR		XMRP * 1076.6800 1N. XO YMRP * .0000 1N. YO ZMRP * 375.0000 1N. ZO	(1) = -3.884 MACH = 1,3953	DEPENDENT VARIABLE CP			(2) = 1.3953	DEPENDENT VARIABLE CP	٠		£ 31 = 4.241 MACH = 1.3953	DEPENDENT VARIABLE CP			7 11 = -3.899 MACH = 1.3961	DEPENDENT VARIABLE CP		
11		REFERENCE DATA	SO.FT. IN.	017 BETA	FLAP LOWER	1.0460	.3093 .1287	SES BETA	11800Y FLAP LOWER	1.0460	. 2825 . 1845	DIE BETA	LIBODY FLAP LOWER	1,0460	. 1812 1812	007 BETA	I HENDY FLAP LOWER	1.0460	. 3859 9859
JATE 13 FEB 76		3434	SREF = 2590.0000 LREF = 474.8000 BREF = 936.0690 SCALE = 936.0000	ALPHA (1) = -4 017	SECTION (1180DY FLAP LOWER	X/LB 1.0180	PHI 000.	ALPHA () 1 = -3,966	SECTION (1) BODY F	X/LB 1.0:80	1771, 050. 1771, 050.04	ALPHA (1) = -4.012	SECTION (1)BODY #	X/LB 1.0180	£451' 000'64	ALPHA (2) # 1.	SECTION & LIBRORY F	X/L9 1,0180	149 1635, 000. 1855, 000.04

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90	TABULATED PRESSURE DATA - 0A148 (AMES 11-073-1) AMES 1:-073(0A148) -140A/B/C/R ORB BODY FLAP LMR	1-073-1) R ORB BODY Q **	FLAP LWR 598.93	٥	(XE8G08)	PN'L	PAGE 5807
1.0180 1.0450	DEPENDENT VA						ad B _{ra} gay and Business address colony and
PH1 .000 .2467 .3269 40.000 .2627 .2238 LPHA (2) =006 BETA (3) 3 SECTION (1)800Y FLAP LOWER	= 4.218 MACH ≈ 1.3951 DEPENDENT VARIABLE CP	• •	= 598.93	Q.	a 439.00	RN/L	2.9179
FH:	* -3.909 MACH = 1.3959 DEPENDENT VARIABLE CP	G	599.13	<u>a</u>	43.95.4 a	RN/L	3026° Z
PH1 .C00 .3423 .4138 .C00 .3024 .3058 ALPHA (3) = 3.967 BETA (2) SECTION (11800Y PLAP LOWER X/LB 1.0180 1.0460	= .154 MACH = 1.3959 DEPENDENT VARIABLE CP	O	599.13	a.	± 439.24	RN/L	* 2.9205
FH:	= 4.208 MACH = 1.3959 DEPENDENT VARIABLE CP	· ප	= 599.13	a.	ਨੂੰ ਜ਼	7./L	= 2.92 05

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(XESGOS)		# 439.71 RN/L * 2.9176	* 439.71 RN/L * 2.9:76	# 440.18 RN/L # 2.5 3.	表 18 日 17 - 18 日 17 - 18 - 18 - 18 - 18 - 18 - 18 - 18 -
c	.	a .	a.	Q.	<u>a.</u>
ON FLAP LIAR	* 599.12	# 5093 1.804 1.004	± 599,12	= 599.11	- 599.11
-073-1 ORB BC	a	G	a	O	o
148 (AMES 11 -140A/B/C/R	1.3952	= 1.3952 ABLE CP	= 1.3952 RIABLE CP	= 1.3944 ARIABLE CP	= 1.3944
TABULATED PRESSURE DATA - CATHB (AMES 11-073-1) AMES 11-073(0ATHB) -140A/B/C/R ORB BODY FLAP LMR	-3.901 MACH = 1.3956 DEPENDENT VARIABLE CP	.144 MACH = 1.3956 DEPENDENT VARIABLE CP	4.207 MACH = 1.3956	-3.639 MACH = 1.3	.146 MACH = 1.394
ATED PR	* =	#	# (2)	u 	î Gi
DATE 13 FEB 76 TABUA	ALPHA (4) = 7.858 BEYA (SECTION (1:8007 FLAP LOWER X/LE	7H1 .DCD .4533 .5091 .40.DDD .3934 .3784 ALPFA (4) = 7.941 BETA (SECTION (1)EQDY FLAP LOWER X.LB 1.0180 1.0460	PHI 1000 13771 3312 40.000 3771 3312 ALPHA (4) = 7.942 BETA SECTION I HBODY FLAP LOWER X/LB 1.0180 1.0469	PHI .CCC .4424 .5109 40.030 .3529 .3737 ALPHA (\$\frame 11.290 BETA SECTION (1)8CDY FLAP LOWER KALB 1.0180 1.0450	## 1

PAGE 5809	(8)	440.18 RN/L = 2.5185			88 6 6 8 17 NG				86 G A)			88 in a sign				
	-	₹ *				ř				r H				* *			
		۵.			(a .			ı	α.			•	o -			
· -	BODY FLAP LWR	* 599,11				= 599.11				± 599.11				= 599.11			
-073-	ORB	O				σ				o				O			
PRESSURE DATA - DAIHB (AMES 11-073-1)		4.224 MACH = 1.3944	DEPENDENT VARIABLE CP			-3.	DEPENDENT VARIABLE CP			•	DEPENDENT VARIABLE CP			» 4.250 мАСН » 1.3948	CEPENDENT VARIABLE CP		
TABULATED		(\$) =				<u>=</u>				(2)				(3) =			
149U		ALPHA (5) = 11.893 BETA (SECTION 1 1/800Y FLAP LOWER	X/LB 1.0180 1.0460	189. 3428. 000. 180.00 000. 180.00	ALPHA (61 = 15.905 BETA (SECTION (1) BODY FLAP LUNER	X/LB 1.0180 1.0460	HPP 6553. +053. 300.DH 1013. 5773. 000.DH	ALPHA (6) = 15.918 BETA	SECTION (1) BODY FLAP LOWER	X/LB 1.0180 1.0450	PH: .000 .6515 .6531 .000.004 .5743 .5161	ALPHA (5) = 15.908 BETA	SECTION (1) BODY FLAP LOWER	#/LB :.0:30 1.0÷60	#199. 6033. 000. #10.054

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TABULATED PRESSURE DATA - OAIYB (AMES 11-073-1)

And the second being broken by the second of
AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP LMR

PAGE 5810

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(65 AUG 75) (XEBG08)

PARAMETRIC DATA	T. XMRP # 1076.6800 IN. XO RUDOER #	BETA (1) = -3.882 MACH = 1.2460 0 = 599.62 P = 551.80 RN/L = 3.0276	LOWER DEPENDENT VARIABLE CP	999		BETA (2) ≠ .155 MACH = 1.2460 Q = 599.KD P = 551.€0 AN/L = 3.0275	LOWER DEPENDENT VARIABLE CP	$G_{oldsymbol{\omega}^+}$		927A (3) = 4.236 MACH = 1.2460 Q = 599.62 P = 551.30 RN/L = 5.22 D	LCHER CEPENDENT VARIABLE CP	19g ±		BETA (1) = -3.903 MACH = 1.2453 Q = 599.67 P = 551.57 FW.L = 3 DES	LOWER DEPENDENT VARIABLE CP	09t	
ATAC TORBETTER	0000・375 = マテかて 0000・ = マテかて 0000・375 = マテかろ		I (I)BODY FLAP LOWER	X/LB 1.0180 1.0460	PH1 .000. .000.000. .000.000.	# &	SECTION I 1900M FAP LOKER	X/18 1.0180 1.3463	H43	H (P)	SECTION IN HEADY FLAM LOWER	אלר8 1.018p ו־מאפט אלר	FH1 510%, 7855, 300, 34 510%, 7810%,	β ••• •••	SECTION (1) BUCK FLAP LOWER	X/LB 1.0180 1.0460	ברת המה ביות br>ביות המה ביות המה בי

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DATE STEEL 75	TABULATED		PRESSURE DATA - 04148 (AMES 11-073-1)	11-073-1	_					-	3	•
			ANES 11-073(0A148) -140A/B/C/R ORB BODY FLAP LMR	/R 0'4B BD	Ω Γ	AP LWR		CXE	(XEBCD3)			
4.PHA (21 *	.017 BETA : 8		.152 MACH = 1.2463	o	Ħ	599.67	ο.	= 551.57		#N-L	* ਲ ਜੋ:	3.10293
ACCELL 1 NOTIONS	I'BODY FLAP LOWER		DEPENDENT VARIABLE CP									
X/LB 1.0160	1.0480											
PH) 000 +0.000	. अ <u>स्कृत</u> . 2110											
ALPHA (2) = .	.013 BETA (:	н Ж	4.217 MACH * 1.2453	G	#	599.67	<u>a</u> .	= 551.57		1	m m	3.0283
SECTION (1) BODY FLAP LOWER	FLAP LOWER		DEPENDENT VARIABLE CP									
X/LE 1.0180	1.0460		•									
149 2000 - 2789 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000	. ਜੁਣਤੂਜ਼ ਜੁਣਤੂਜ਼ ਜੁਣਤੂਜ਼											
ALPHA (3) = 3.	3.907 BETA (= =	-3.907 MACH # 1.2463	a		599.67	0 .	* 551.5¶		Z	mi H	3.027B
SECTION (1) BUDY FLAP LOWER	FLAP LOWER		DEPENDENT VARIABLE CP									
x/LB 1.0163	1.04 60											
PH1 .000. .000. .000.	9850E.											!
ALPHA (3) = 3	3.907 BETA 1	2) =	. 148 MACH # 1.2463	Œ	Ħ	539.67	a .	= 551.57		Z	ų.	3.0276
SECTION (1) BODY FLAP LOWER	FLAP LOVER		DEPENDENT VARIABLE CP								•	
X/19 1.0183	1. 0+60											
7788. 253. 7788. 253.34 71858. 253.34	1975.						:					
ALPHA (3) = 3	3.911 BETA (31 =	ч.207 МАСН m 1.2463	o		599.67	<u>a</u>	551,57		Ž	ų Mį	3, 11275
SECTION ! INBUDY FLAP LOWER	FLAP LOWER		DEPENDENT VARIABLE CP									
หานุย 1.ถูงอง	1.0450											
PM1 .000 .3793 40.000 .8893	4134 2705											

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3. 品部 m. 3.2332 3.0389 PAGE 5812 Ē 7 2 上言語 <u>-</u> (KERCID) 551.57 100 m 55..57 1889. 14. Ω. Đ, AMES 11-073(0AIMB) -140A/G/R ORB BODY FLAP LWR = 599.67 599.4 539.4 599.6 TABULATED PRESSURE DATA - DAINB (AMES 11-073-1) Œ Ø Ø a O -3.903 MACH = 1.2465 * 1.2463 1.2447 - 1.2447 4.208 MACH # 1.2463 DEPENDENT VARIABLE CP DEPENDENT VARIABLE CP DEPENDENT VARIABLE CP DEPENDENT VARIABLE CP CEPENCENT VARIABLE CP .143 MACH THE MACH MACH -3.985 BETA (1) = il Nij ا (ش) m ~ BETA M_FHA (5) + 11.863 6574 4:36 6-8-1: + BETA SECTION 1 1980DY FLAP LOWER SECTION (1980DY FLAP LOWER SECTION (1) BODY FLAP LOWER SECTION (1) BIOM FLAP LOWER SECTION (1) BOOM PLAP LOWER . 4929 . 350.1 .4857 .3479 . 4000 3400 3400 1 15474 13957 1.1180 :.0450 1.0183 1.0450 1.0463 1.0180 1.0460 1.0183 1.0%83 ALPHA (4) = 7.889 ALPH4 (4) = 7.857 ALPHA (4) = 7.933 .4977 .3\$64 . ##18 . #765 1.0160 (1) (1) (1) (1) (1) .3974 DATE 13 FEB 76 CO - THAT 40.000 40.000 PHI .034 40.034 1 DO 0 e lox ⊕ :× A/LB X/LE 표 £3.1/¥

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CATE 13 PER 76

TABULATED PRESSURE DATA + DAINB (AMES 11-073-1 1

ANES 11-073(0A148) -1404/8/07R 093 80DY FLAP LMR

Œ ± 599.41 4.220 MACH = 1.2447 BE7A (3) = SECTION OF BOOM FLAP LOWER ALPHA (5) = 11.848

1.0180 1.046S X/LB

DEPENDENT VARIABLE CP

Ø

PACIE SB13

100

(MERSOR)

W.0279

PAGE 5814

05 AUG 75 (XE8610) AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP LWR REFERENCE DATA

The state of the s

PARAMETRIC DATA

SPOBRK : L-ELVN : MACH :

RUDDER = BDFLAP = R-ELVN =

22.58 .089

E L

3.1904

709.53

598.52

1.0977

MACH

-3.883

= ==

BETA

-4.037

= (1) AHD

SECTION (1)BODY FLAP LOWER

1.0180 1.0460

X/LB Ī

= 1076.6800 IN. XO = .0000 IN. YO = 375.0000 IN. ZO

YMRP TMRP TMRP

2690,0000 50.FT. 474.8000 IN. 936.0580 IN.

SPEF = LREF : EREF = SCALE =

DEPENDENT VARIABLE CP

٥.

709.53

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± 1.0977

MACH

. 155

- (2)

BETA

ALPHA (1) = -4.035

.332C .142:

969. 40.000

SECTION (1:800Y FLAP LOWER

1.0160 1.0460

X/L9

DEPENDENT VARIABLE CP

N Z

3 709.53

3.1585

1

707.64

598.85

O

DEPENDENT VARIABLE CP

MACH

-3.899

BETA

. USD

598.52

0

4.235 MACH = 1.0977

DEPENDENT VARIABLE CP

BETA

ALPHA (1) = -4.04#

.340**6** .703.

.3150

889.01

SECTION (1) BODY FLAP LOWER

1.0180 1.0460

87/X

3020

. 3275 . 1528

980 TON

(S) 444

SECTION (): BODY FLAP LOWER

BT/X

1.0180 1.0450

. 3254 . 2683 300° 40°038

CATE 13 FEB 76 TABULATED PRESSURE	PRESSURE DATA - DAI48 (AMES 11-073-1)	1-073-1				_	PAGE 5815	815
AMES 11	AMES 11-07310A1481 -140A/B/C/R ORB BODY FLAP LHR	R ORB BODY FLAP	E E E		(XEBG10)			
ALPHA (2) = .025 BETA (2) = .152	: MACH = 1,0996	Q = 598	598.85 P	•	* 707.64	FRN/L	H.	3.1685
SECTION (1) BODY FLAP LOWER	DEPENDENT VARIABLE CP							
X/L9 1.0180 1.0460								
3855. 20÷5. 000.04 2885. 20÷5. 000.04								
ALPHA (2) = .023 BETA (3) = 4.214	MACH = 1.0996	G = 598.85	.85 P		- 707.54	RN/L	m "	3.1885
SECTION (1) BODY FLAP LONER	DEPENDENT VARIABLE CP							
23. 1.0:80 1.0460								
PHI . 3214 . 3214 . 50.00.04 . 2307 2028						*		
4LPHA (3) = 3.934 BETA (1) = -3.903	-3.903 MACH = 1.0985	0 = 598.62	9. 9.		= 708.59	TANK TANK	M H	3.1905
SECTION (1) BODY FLAP LOWER	DEPENDENT VARIABLE CP							
X/L8 1.0180 1.0460								
FHI .500 .4306 .3843 %0.030 .3690 .2853			-					
ALPHA (3) = 3.940 BETA (2) = .149	MACH = 1.0985	a 598.é2	, [–] 5		= 708.59	FN/L	ii ii	3.1905
SECTION (1)BODY FLAP LOWER DEPE	DEPENDENT VARIABLE CP							
X/L9 1.0180 1.0450		·						
6192' 0622' 000'0+ 14d			• • .					
ALPHA (3) = 3.944 BETA (3) = 4.204	MACH = 1.0985	0 * 598.62	62 P	-	708.59	RN/L	ii M	3.1905
SECTION (1) BODY FLAP LOWER DEPE	DEPENDENT VARIABLE CP							
X/L9 1.0180 1.0460								
24£2. 9314. CCC. 914. CCC. 144			•					

DATE 13 FEB 76 TABULAT	TEO PRESSUF	E DATA - (TABULATED PRESSURE DATA - DAINB (AMES 11-073-1)	1-073-1	_	٠.			α.	PAGE 5816
	AMES	11-073(0AI	AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP LMR	R ORB BO	아 된	AP LWR		(XEBG1D)		-
ALPHA (4) # 7.882 BETA (1)	11	-3.899 MACH	1.0980	ø	ų.	- 598.61	•	- 709.30	RN/L	3.1501
SECTION (1'BODY FLAP LOWER	ä	PENDENT V	DEPENDENT VARIABLE CP							
X/LB 1.0180 1.0450										
PH1 . 000 . 5328 . 4269 . 000.04				÷						
ALPHA (4) = 7.887 BETA (2)		. 144 MACH	1.0980	0	ι. L	598.61	۵	* 709.30	RN/L	× 3.1901
SECTION (1) BODY FLAP LOWER	ŏ	PENDENT V	DEPENDENT VARIABLE CP							
X/LB 1.0180 1.0460						•				
PHI . 000 . 5564 . 4293 40.000 . 4144 . 2873										
ALPHA (4) = 7.888 BETA (3)) = 4.206	D6 MACH	= 1.0980	Œ	# #	598.61	۵	= 709.30	RNAL	3 .1901
SECTION (1) BODY FLAP LOWER	5	EPENDENT V	DEPENDENT VARIABLE CP							
M/LB 1.0180 1.0460										
PHI .000 .5897 .4272 40.000 .3850 .2572							·			
ALPHA (5) = 11.921 BETA (1)	1 = -3.873	73 MACH	1.0991	o	er e	599.16	۵.	39.80	RN/L	ਲ ਜ਼ਿਲ੍ਹ ਜ਼ਿਲ੍ਹ
SECTION (1)BODY FLAP LOWER	۵	EPENDENT V	DEPENDENT VARIABLE CP							
X/LB 1.0180 1.0469										
PH1 .000 .637 3 .4625 .0.000 .9 76 .3237					* *					:
ALPHA (5) = 11.930 BETA (2)	tì	.146 MACH	1.0991	o		599.16	<u>a</u> .	* 708.60	J.Ž.	# 3.1914 *
SECTION (1) BODY FLAP LOWER	Ω	EPENDENT V	DEPENDENT VARIABLE CP							
X/LB 1.0180 1.0469										
1Hd 1994: 3646: D30.C4 1995: 2764: D30.C4				٠						

TABULATED PRESSURE DATA - OAIWB (AMES 11-073-1) DATE 13 FEB 75

AMES 11-073(04148) -140A/B/C/R ORB BODY FLAP LAR

or configurate positive that where the first of the configuration of the configuration of the configuration of

(C1983X)

DEPENDENT VARIABLE CP BETA (3) = ALPHA (51 # 11.928

SECTION (1) BODY FLAP LOWER

9H1 . 300 40.000

.4592 6236 4697

1.0180 1.0450 X/1.8

4.214 MACH = 1.0991

708.60

= 3.1919

RN/L

PAGE 5817

\$100 1

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M

3.5778 = 3.5779 3.577B 3.57 05 AUG 75) PAGE 5818 SPOBRK = L-ELVN = MACH = 1/1/ RN/L RNI RYL (XE8G11) (PARAMETRIC DATA E-850 1057.3 1057.3 1057.3 .000 22.550 .000 RUDDER -BDFLAP -R-ELVN -۵. AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP LMR 590.38 600.11 600.11 TABULATED PRESSURE DATA - DAIMB (AMES 11-073-1) Œ 4.239 MACH = .90043 ₹ .90043 CEPENDENT VARIABLE CP DEPENDENT VARIABLE CP DEPENDENT VARIABLE CP .148 MACH MACH = 1076.6800 IN. XO .0000 IN. YO = 375.0000 IN. ZO MACH 30512--3.873 3) # £ 11 = د (ی) XMAP YMAP ZMAP BETA BETA ALPHA (1) = -4.047 BETA 밁 BENEFICIAL PROPERTY AND LONGER REFERENCE DATA SECTION (1) BODY FLAP LOWER SECTION (1:90DY FLAP LONER 2139 2894 09-07: 081071 2690.0000 50.FT. 474.8000 IN. 936.0680 IN. . 1251 1.0180 1.0450 1.0180 1.0460 Ü ALPHA (!) = -4.057 ALPHA (1) = -4.067 .40÷4 DATE 13 FEB 76 1 HAY 1 8. 900 40.030 40.000 +0.000 +0.000 SREF # LREF # BREF # SCALE # X/LB Ha X/Le 품 X/LB

CEPENDENT VARIABLE CP

FECON FLUO LOWER

ACT DES

09+0∵

1.0180

. 37**8**7 3353

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919		3.5741				3.5741				3.5758				3.5758				3.5758			
PAGE 5819						#				M A				e H	•			# Wj			
		RN/L				RN/L				RNY			·	FRV7L				RN/L			
	(XEBG11)	1058.3				1058.3				1059.2				1059.2				1059.2			
										*				,				n			
		۵.				a				Q.				α.				<u>.</u>			
	LAP LHR	599.38				599.38				599.47				599.47				599.47			
_	BODY F					Ħ								#							
11-073-	'R ORB I	O				a				ø				0				o			
PRESSURE DATA - OAIWB (AMES 11-073-1)	AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP LNR	. 89947	DEPENDENT VARIABLE CP			7+668.	IBLE CP			.89917	BLE CP			71668.	BLE CP			71668.	DEPENDENT VARIABLE CP.		
4 - 0A1	(B+1+B)	MACH =	IT VARI			MACH	DEPENDENT VARIABLE CP			T T	DEPENDENT VARIABLE CP			MACH .	DEPENDENT VARIABLE CP			#KCH .	T VARIA		
E DAT	1-073	. 39 M	PENDER				PENDEN			1 MACH	PENDEN				ENDEN				ENDEN		
RESSUR	AMES 1	· .	GE			4.220	DE			-3.911	130			.151	130			4.207	50		
TABULATED P		: (Z) :				: (£)								. (5)				(3) =			
TAB		BETA	CHER	8	 	BETA	OWER	Ω.	សិស	BETA	ONER	9	တ္က တ	BETA	CHER	9	tc	BETA	OWER	6	1114
		HID.	FLAP L	1.0450	.1143	. 024	ו מייש	1.0450	.2205 .0839	3.936	LAP L	1.0450	. 2339 . 1479	3.937	יראף נ	1.0450	.1175	3.940	LAP L	1.0460	.2383
75			THEODY FLAP LOWER	1.0180	.2830	ı	SECTION (1) BODY FLAP LOWER	1.0186	.3819 5845		SECTION (1) BODY FLAP LONER	1.0180	.3638		SECTION (1) BODY FLAP LOWER	1.0180	.4567		SECTION (1) BODY FLAP LOWER	1.0190	.4539
en in the second		 ق	_	-	88	(5	NO NO	-	88	(3) =	- NO	-	88		. N	••	00	(3) =	- - - -	•-•	
D E		AHOLA	SECTION	X/LB	PH1 .000 40.000	ALPHA (SECTI	X/LB	PH1 .990 40.000	ALPHA (SECTI	e1/x	PH1 .000 40.000	ALPHA (SECTI	X/LB	000. 000. 000.	ALFHA (SECT IC	X/LB	PH1 000.
				OR OF	IGINA POOR	L l	PA(UA	e Lii	is Y						•		•	٠			

CATE 13 FEB 75 TABULATED PRE	TABULATED PRESSURE DATA - CA148 (AMES 11-073-1)	-073-1				•	PAGE 5820	
	AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP LMR	ORB BOOY FLA	P LWR		(XEB011)			
A; PHA (4) = 7.890 BETA (1) =	-3.900 МАСН ≈ .89940	0 59	599.79	•	1059.2	RN/L	3.5790	0 <u>6</u> 7
SECTION (1)BODY FLAP LOWER	DEPENDENT VARIABLE CP							
X/L9 1.0180 1.0460								
PH1 .000 .507+ .2527 .000.000 .4050 .1531					1	;		ş
ALPHA (4) = 7.894 BETA (2) =	.145 MACH = .89940	. 55 * 55	599.79	٥.	= 1059.2	Ž	0.07/E	Š,
SECTION (1) BODY FLAP LOWER	DEPENDENT VARIABLE CP							
X/LB 1.0185 1.0460								
PHI .000 .1412 .0505 40.000 .3658 .1258							1	
ALPHA (4) = 7.832 BETA (3) =	4.207 MACH = .89940	. 55	599.79	۵.	= 1059.2	1	08.0.2 * .	
SECTION (1) BODY FLAP LOWER	DEPENDENT VARIABLE CP							
1.0180 1.0460								
PH1 .000 .5031 .2494 40.000 .3420 .0990							1	i i
3) = 11.532 BETA (1) =	-3.884 MACH = .89887	ιί 1	599.34	۵.	1059.7	T'NO	# 10) 14)	3.5
SECTION (1) SDDY FLAP LONER	DEPENDENT VARIABLE CP							
1.0180 1.0860								
1H4 . 000 . 5528 . 2501 . 1914 . 1954 . 500						i		ŗ
ALFHA (5) = 11.939 BETA (2) =	. 149 MACH # .89887	in	599.34	Œ.	* 1059.7	1	1) 1)	6.074
SECTION (11805Y FLAP LOSER	DEPENDENT VARIABLE CP							
. ₹/LB 1.0180 345¤								
PH: 6725. 0945. 000. 40.000. 3524 4583								

DATE 13 FEB 78

TABULATED PRESSURE DATA - DAIMB (AMES 11-073-1)

AMES 11-073(DA148) -140A/B/C/R ORB 80DY FLAP LWR

(XEB¢11)

1

1059.7

= 3.5747

1.0340.1 08:0.1 門米

SECTION (1780DY FLAP LCWER

ALPHA (5) = 11,928

.5+81 .3529 . 003 40. 003

DEPENDENT VARIABLE CP

a

H.F.33 MACH

BETA (3) =

599.34

PAGE 5821

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TABULATED PRESSURE DATA - DAIHB (AMES 11-073-1)	AMES 11-07310A148) -140A/B/C/R ORB BODY FLAP LMR
CATE 13 FEB 76	

PAGE 5822

(XEBD)2)

PARANETRIC DATA	RUDDER000 SPDEPK = 85.000 BDFLAP22.500 L-ELVN = .000 R-ELVN000 MACH500	.96 p = 2385.7 RN/L = 4.8150				.96 p * 2385.7 FN/L * 4.5150				.96 P * 2385.7 RN7L * H SIST		-					
•		0 = 593.96				0 × 593.96				0 = 593.96	٠			a 593,96			
	1076.6800 IN. XO .0000 IN. YO 375.0000 IN. 20	= -7.889 MACH * .59636	DEPENDENT VARIABLE CP			= -3.874 MACH = .59636	DEPENDENT VARIABLE CP			= .163 MACH = ,59636	DEPENDENT VARIABLE CP			± 4.234 %4CH = .59636	DEPENDENT VARIABLE CP		
SEFERENCE DATA	SRSF = 2690.0000 SO.FT. XMRP = 1474.8000 IN. YMRP = 935.0800 IN. ZMRP = 1474.8000 IN. ZMRP =	(1) = -4.057 BETA (1)	SECTION ! 1180DY FLAP LOWER	X/LB 1.0180 1.0460	PH1 0100. 114E. 030. 032.04	ALPHA (1) = -4.036 BETA (2)	SECTION (1)BODY FLAP LOWER	X/LB 1.0190 1.0460	PH1 . GCD . SERE. GCD . 4450.000 . 2488	ALPHA (1) = -4.017 BETA (3)	SECTION (1)BODY FLAP LOWER	0940 1 0810 1 ET/K	145 110 1878 1185 140 1875 1875	4[PHB (1) = -4.025 BETA (4)	SECTION (1) 500Y FLAP LOWER	X/LB 1.0180 1.0460	3163 15+2 030 3163 15+2 030 170 14

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	3272 13 F28 76 TABULATED PRESSURE DATA - 04148 1 AMES 11-073-1)	ø.	PASE 5823
1.0150 1.0460 SETA 1.51 SETA SET	AMES 11-073(041-8) -140A/B/C/R ORB BODY FLAP LWR	30.2)	
	11: # -4.040 SETA (5) = 8.307 MACH = .59636 0 = 593.96 P =		± 4.8150
1.0180 1.0460 1	SOTION O PROOF FLAM LOWER		
1.018	1.0180		
1.0190 1.0400 1	3310 4905.		
1.0180 1.0460 1	: 2) = .347 BETA (1) = -7.924 MACH = .59654 0 🐺 594.31 P =		# 4.813#
1.0180 1.0463 1	(DIBODY FLAP LOWER		
1.012	1.0130		
1.0 1.0	. 380 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		
1.0190 1.0460 1	(2) = .057 BETA (2) = -3.897 MACH = .59554 0 = 594.31 P =		4.8]分
1.0190 1.0460 1	(1) BOOY FLAP LOWER		
SSC SSE2 COSSY COSS ETA (3) = .160 MACH = .59654 Q = 594.31 P = 2385.7 PN/L = 1.0180 1.0460	0618.1		
1.0180 1.0460 1.0460 1.0180 1.0460 1.0180 1.0460 1.0180 1	. 3522 . 2954		
1.0180 FLAP LOWER 1.0180 1.0460 1.0180 1.0460 1.0180 1.0460 1.023	(2) = .058 BETA (3) = .160 MACH = .59654 Q = 594.31 P =		南田子
1,0180 1.0450 3730 .0978 323 .2730 .0978 3 : 2) # .052 BETA (4) = 4.215 MACH = .59654	(1980DY FLAP LOWER		
1303 .3736 .0978 1303 .2633 .0998 1.0:80 1.0960 1303 .2633 .0995 1303 .2633 .0995	1,0180		
1.2) # .052 BETA (4) = 4.215 MACH = .59654	25.75 884-74		
10% (1:800% FLAP LOWER 1.0:80 1.0+60 100 .2633 .0995	# 594.31 P # 59654 0 # 594.31 P #		#. 61.94 #
- 5819"1 1 5819"1 500	STICH (1:BODY FLAP LOWER		
- 5683 883 1989 1989	581011		
	. 2633 - 2333		

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FAIGE 5824	(XEBG12)	. 2385,7 RN/L = 4.8134				# 2385,7 RN/L # 4.8205				# 2385.T # JWW # 1,9805				3033 H WWW 11/0840 #	ı			# #385,7 #W/L # 4,520E			
-1)	BODY FLAP LWR	= 594.31 P				= 595.02 P				■ 595.02 P				■ 595.02				■ 595,02 P			
TABULATED PRESSURE DATA - DAIHB (AMES 11-073-1	AMES 11-07310A148) -140A/B/C/R CRB BODY FLAP LMR	B.271 MACH = .59654 Q	DEPENDENT VARIABLE CP			-7.937 MACH = .59690 Q	DEPENDENT VARIABLE CP			-3.898 MACH = .59690 0	DEPENDENT VARIABLE CP			.162 MACH59690 D	DEPENDENT VARIABLE CP			4.202 MACH = .59690 0	DEPENDENT VARIABLE CP		
DATE 13 FEB 75 TABULATED PA		ALPHA (2)	SECTION (11800Y FLAP LOWER	X/LB 1.0180 1.0450	#4 .000 .3831 .1003	ALPHA (3) = 3.956 BETA (1) =	SECTION (1) BODY FLAP LOWER	X/L® 1.0169 1.0¥60	0601 9814 000 01 000 01 000 01 000 01 000 01 000 01 01	ALPHA (3) = 3.958 BETA (2) =	SECTION (1) BODY FLAP LOWER	X/L# 1.0180 1.6460	F時(.000 3967 1069 46.000 3079 4387	ALFA (31 = 3.957 EETA (3) =	SECTION (1:SODY FLAP LOWER	X/LE 1.0183 1.0460	#801: +182: 000: #801: +182: 000: #00:04:	ALPHA (3) = 3,959 BETA (4) =	SECTION (1) BODY FLAP LOWER	X/LE [.0180 1.0460	1 mag

CXEBOILE:	* RESERT 34/11 * 1.5202			2950 # = 200 PM	.			6 9					*							
ED PRESSURE DATA - OAIWB (AMES 11-073-1) AMES 11-07310A1WB) -140A/B/C/R OFB BODY FLAP LHR	= 8.255 MACH * .59690 0 = 595.02 P	DEPENDENT VARIABLE CP		1	a +7.	DEPENDENT VARIABLE CP			= -3.871 MACH = .59660 0 = 594.43	DEPENDENT VARIABLE CP		•		DEPENDENT VARIABLE CP			# 4.216 MACH = .59650 0 # 554.43	DEPENTENT VARIABLE CP		
DATE 13 FEB 76 TABULATED PR	A_PHB (41 = 7.909 BETA (5)	HON (1780BY F	X/LE 1.018B 1.0950	PM1 .000 .4397 .1037 40.000 .2709 .0056	ALPHA (5) = 11.950 BETA (1)	SECTION (1)BOOM FLAP LOWER	X/LB 1.0180 1.0450	PHM ,000 .8553 .1303 %,0000 .3465 .0576	ALFHA (5) = 11.958 L,TA (2)	SECTION (1:BUDY FLAP LOWER	X/LB 1.0180 1.0+60	PHI ,000 .4623 .1314 40.000 .3354 .0553	ALPHA (5) = 11.970 BETA (3)	SECTION 1 1 300Y FLAP LONER	X/LB 1.0180 1.0454	1164. 500. 1357. 1184. 500. 1869. 3198.	ALP44 (\$) = 11.959 BETA (4)	SECTION (1'BODY FLAP LONE?	X/L9 1.6180 1.5450	PMI .000 . 8523000. .00.003013000.

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	LAP LSRR	# 594.43		
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11-073-1	8 Bc0 H/	ø		
SEMT) E	DVB/#041-	.59650	DEPENDENT WARIABLE OF	
CAIVE	- (8 ⁺	u	ari ae	
TA T	73 COA 1	MACH	N 1130	
TABJILTEO PRESSURE DATA - CAISB (AMES II-073-1)	AMES 11-073(CANINS) -1402/8/C/R 098 800Y FLAP LWR	9.279 MACH = .59650	DEPEN	
74 C3-1-LE		357A (5) =		
7.1		#- #-	HEMO!	50
		656.11	CLAP 1	1.040
ω		. 	BODY	1.0183 1.0460
FEB 76		<u>س</u> ش	: 1 J 24	
10 10 10 10		in artiu	SECTION (1:BODY FLAP LONE	Ë
		£1,	ίń	7

4849 2890

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F135 5527

TABLE ATEN PRESSURE DATA - DATE	073-1)			ā.	PAGE 5828
*.	CAR RODY FLAP LHR	4	(XE8013)	_	05 AUG 75)
		·	ATAN TIBLE DATA	4740	
REFERENCE DATA	.,		PAKATE IN I C	3	i
SREF = 2690.0000 \$0.FT. XMAP = 1076.6800 IN. XO SEF = 474.8000 IN. YMAP = .0000 IN. YO BREF = 936.0680 IN. ZMAP = 375.0000 IN. ZO		RUDDER = DOFLAP = R-ELVN =	0000	SPOBRK L-ELVN HACH	35.000 .000 1.400
SCALE	599.93	Q.	· 440.65	FN/L	- 2.9118
SECTION (1)BODY FLAP LONER DEPENDENT VARIABLE CP					
X/LB 1.0180 1.0460					
PHI .00026142581 40.00028642505	•			i	
ALPHA (1) * -4.030 BETA (2) = .154 MACH = 1.3946 0	, = 599.93	e.	- 440.65	RNZ	ري د د د د د د د د د د د د د د د د د د د
SECTION (1)BOOY FLAP LOWER DEPENDENT VARIABLE CP					
X/LB 1.0180 1.0460					
РНЈ .000257\$2644 40.00026342389					
ALPHA (1) = -4.039 BETA (3) = 4.249 MACH = 1.3946 0	0 - 599.93	6 6	- 440.65		6.916
SECTION (1) BOOY FLAP LOWER CP					
X/LB 1.0180 1.0%60					
PH1 .00025832600 40.00025472301				i	1 1
ALPHA (2) =033 BETA (1) = -3.905 HACH = 1.3950 0	0 = 599.93	ඩ r			
SECTION (1) BODY FLAP LOWER DEPENDENT VARIABLE CP					
X/LB 1.0180 1.0460					
PH1 .00020422049 40.60023602037		ı			

DATE 13 FEB 75 TABULATED P.	PRESSURE DATA - DAIHB (AMES 11-073-1)	1-073-1				•	PAGE 5829	
	AMES 11-07310A:48) -140A/B/C/R ORB BODY FLAP LMR	R ORB BOD'	FLAP LHR		(XE8613)			
ALPHA (2) =028 BETA (2) =	.144 MACH = 1.3950	o	= 599.93	۵	= 440.41	RN/L	2.9115	٠.
SECTION (1730DY FLAP LOWER	DEPENDENT VARIABLE CP						٠	
X/L9 1.0180 1.0460								
PHI .00019852113 40.00022562096		, .						
ALPHA (2) =033 BETA (3) =	4.229 MACH = 1.3950	o	599.93	۵	14.044	RN/L	- 2.9115	
SECTION (1)BODY FLAP LOWER	DEPENDENT VARIABLE CP							
X/LB 1.0180 1.0460								
PH1 .00020212094 .00021632663								
ALPHA (3) = 3.851 BETA (1) =	-3.904 MACH = 1.3941	o	= 600.12	۵.	= 441.12	RNZ	• 2.9157 ·	_
SECTION (1)BODY FLAP LOWER	UEPENDENT VARIABLE CP							
X/LB 1.0190 1.0450								
PHI - 000. - 1670 - 1670. - 1670 - 1670								
ALPHA (3) = 3.949 BETA (2) =	.141 MACH = 1.3941	ø	s 600.12	۵	= 441.12	FAV.	- 2.9157	_
SECTION (1) BODY FLAP LOWER	DEPENDENT VARIABLE CP							
X/LB 1.0180 1.0469								
PH1 .00014851493 40.00016331680	\							
ALPHA (3) = 3.862 BETA (3) =	4.219 MACH = 1.3941	ø	= 600.12	O	- 441.12	%	* 2.9157	-
SECTION (1)BODY FLAP LOWER	DEPENDENT VARIABLE CP							
X/LB 1.0180 1.0460								
HHi . 330 - 1641 350								

DATE 13 FE9 76 TABULATED PR	TABULATED PRESSURE DATA - 0A148 (AMES 11-073-1	-073-1)				PAGE 583C	5830
	AMES 11-073(0A148) -: 40A/B/C/R ORB BODY FLAP LMR	ORB BODY FLAP LWR		(XE8613)	13)		
A: PHA (4) = 7.881 BETA (1) =	-3.904 MACH = 1.3932	00.009 • 0	۵.	* 441.59	RN/L	H	2.915?
SECTION (1) BODY FLAP LOWER	DEPENDENT VARIABLE CP	,					
X/LB 1.018G 1.0460	1 / ·						
PH1 .00009621097 +0.00010641232							
ALPHA (4) = 7.933 BETA (2) =	.128 MACH = 1.3932	Q = 600.00	٠ •	= 441.59	RN/L	•	2.9150
SECTION (1)BODY FLAP LOWER	DEPENDENT VARIABLE CP						
X/LB 1.0180 1.0450							
PH1 .00009331135 40.00011681426							
ALPHA (4) = 7.934 BETA (3) =	4.214 MACH = 1.3932	a ≈ 600.00	۵.	= 441.59	RN/L		2.9150
SECTION (1) BODY FLAP LOWER	DEPENDENT VARIABLE CP						
X/L3 1.0180 1.0450							
РНі .00009681096 40.00012741521							
ALPHA (5) = 11.884 BETA (1) =	-3.887 MACH = 1.3946	. 599.92	۵	- 440.65	RN/L	•	2.9195
SECTION (1)BODY FLAP LOWER	DEPENDENT VARIABLE CP						
X/L9 1.0180 1.0460							
PHI .00004840719 40.00009011196							
ALPHA (5) * 11.891 BETA (2) =	.152 MACH = 1.3946	. 599.92	٥	= 440.55	RN/L	#	2.9185
SECTION (1)BODY FLAP LOWER	DEPENDENT VARIABLE CP	•					
X/LB 1.0180 1.0460							
PH1 .00004550709 40.00008401306							

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1.0:80 1.0460 . 000**09** # # # 000 000 000

2.9216

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441.59

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= 1.3935

4.263 MACH

(3)

BETA

15.903

(S : KHE'N

.0558 -.0960

BECTICA (1)800Y FLAP LOWER

DEPENDENT VARIABLE CP

PAGE 5832	(XE8014) (05 AUG 75)	: DATA	SPDBRK = 35.000			RN/L = 3.0159	
	(XE801	PARAMETRIC DATA	000		9	552.51	
		<u> </u>	RUDDER =		N-ELVIN	Q.	
	FLAP LHR					553.70	
<u> </u>	B00Y					•	
11-073-	/R ORB					a	
B (AMES	AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP LHR					■ 1.2452	BLE CP
OA14	£8)						ARIA
DATA -	073 (OA1	-	OX .		14. KD	MACH	DEPENDENT VARIABLE CP
PRESSURE DATA - 04148 (AMES 11-073-1)	AMES 11-		1076.6800 IN. X	0000	3/5.0000	-3.884 MACH	3430
ABULATED			Ħ	Ħ	н		
ABUL			QE/AX	<u>}</u>) E	-	
1		DATA	• • •		-	BETA (1) =	OFER.
ω		REFERENCE DATA	.0000 SO.F.	.8000 IN.	9.56.0580 IN.	ALPHA (1) = -4.010	SECTION (1) BODY FLAP LOWER
EB 7			2690	7	926		1
13 F			Ħ	Ħ	H 11	-	Š
DATE 13 FEB 76			SREF	LPEF	BREF SCALE	ALPHA	SECT

3.0159 RA/L 552.51 599.70 DEPENDENT VARIABLE CP DEPENDENT VARIABLE CP MACH 4.237 ALPHA (1) = -4.009 BETA SECTION (1) BODY FLAP LOWER SECTION (1) BODY FLAP LOWER 1.0180 1.0450 -.3253 -.3334 1.0180 1.0460 PH1 .000 40.003 K/LB X/LB

3.0159

552.51

* 1.2452

MACH

. 148

ALPHA (1) = -3.944 BETA

-.3241 -.3218 -.3339 -.2747

.000 40.000

1.0180 1.0460

X/1B Ħ

= 1.2472 MACH -3.866 BETA -.3205 . 205 -.3267 ALPHA (2) = PH1 .300 +0.000

3.0212

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552.23

601.31

DEPENDENT VARIABLE CP

1.0180 1.0460 X/LB

SECTION (1) BODY FLAP LOWER

-.2533 40.000

CATE 13 FEB 78 TABULATED P	FRESSURE DATA - DAIMB (AMES 11-073-1)	13-1)			Δ.	PAGE 5833	
	AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP LMR	ORB BODY FLAP LWR		(XE8614)			
ALPHA (2) = .220 BETA (2) =	.185 MACH = 1.2472 G	0 = 601.31	۵.	* 552.29	RN/L	3.0212	ü
SECTION I TIBODY FLAP LOWER	DEPENDENT VARIABLE CP						
X/L9 1.0180 1.0460							
PH1 .00025432652 .40.00026922294							
ALPHA (2) = .215 BETA (3) =	4.264 MACH = 1.2472 Q	0. = 601.31	Q.	= 552.29	FN/L	= 3.0212	5
SECTION (1) BODY FLAP LOWER	DEPENDENT VARIABLE CP						
X/LB 1.0:80 1.0460							
PHI .00025352625 40.00026112431							
ALPHA (3) = 3.903 BETA (1) =	-3.872 MACH = 1.2473 0	. 600.93	<u>.</u>	= 551.82	RN/L	= 3.0266	92
SECTION (1) BODY FLAP LOWER	DEFENDENT VARIABLE CP						
X/LB 1.0180 1.0460							
PHI .00020142111 40.00019091743							
ALPHA (3) = 3.903 BETA (2) =	.184 MACH = 1.2473 0	= 600.93	•	= 551.82	RN/L	= 3.0266	19
SECTION (1) BODY FLAP LOWER	DEPENDENT VARIABLE CP						
X/L9 1.0:80 1.0460							
PH1 .00019342141 40.3032009							
ALPHA (3) = 3.907 BETA (3) =	4.256 MACH = 1.2473 Q	= 600.93	٠	551.82	FR/L	3.0266	ıΩ
SECTION (1)BODY FLAP LOWER	DEPENDENT VARIABLE CP						
X/LB 1.0190 1.0460							
PHI .030 +.20192153 +0.56321282126							

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DATE 13 FEB 76 TABULATED PRESSURE DATA - DAIHB (AMES 11-073-1)	MES 11-073-1	•				-	PAGE 5834	* 68
	/B/C/R ORB B	NOV F	LAP LMR		(XE8014)	č		
ALPHA (4) = 7.853 BETA (1) = -3.870 MACH = 1.2469	0 69	•	88.009	a	552.05	RN/L	,	3.0236
SECTION (1)BODY FLAP LOWER DEPENDENT VARIABLE CP								
X/LB 1.0180 1.0460								
PH1 .00015661727 40.00015401611						,		
ALPHA (41 = 7.959 BETA (2) = .181 MACH = 1.2465.	65. D	•	88.009	0 .	= 552.06	PN/L	H.	3.0236
SECTION (1) BODY FLAP LOWER DEPENDENT VARIABLE CP	a .							
X/LB 1.018C 1.0460								
РН1 .DOO15831782 40.DOO16781832								
ALPHA (4) = 7.950 BETA (3) = 4.251 MACH * 1.2469	0 69	•	600.88	۵.	- 552.05	RN/L	.	3.0236
SECTION (1) BODY FLAP LOWER DEPENDENT VARIABLE CP	Q.							
X/LB 1.0180 1.0460								
РН1 .00015751772 40.00018602045								!
ALPHA (5) = 11.929 BETA (1) = -3.853 MACH = 1.2466	0 99	•	600.83	۵.	s 552.29	RYL	Ħ.	3.0248
SECTION (1)800Y FLAP LONER DEPENDENT VARIABLE CP	<u>o.</u>							•
X/LB 1.0180 1.0460								
PHI .030 -:1214 -:1399 40.003 -:1387 -:1613								
ALPHA (5) = 11.937 BETA (2) = .177 MACH = 1.2465	0 99		600.83	۵.	• 552.29	FINT		3.0248
SECTION (1) BOOY FLAP LOWER DEPENDENT VARIABLE CP	9 ,							
X/LB 1.0180 1.0460								
PHI .00011521392 .000.00								

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4.267 MACH = 1.2466 DEPENDENT VARIABLE CP BETA (3) SECTION / 1180DY FLAP LOWER -.1479 1.0180 1.0460 ALPHA (5) = 11.932 -.1167 DATE 13 FEB 76 PH1 .000 40.000 e7/x

TABULATED PRESSURE DATA - DAIMB (AMES 11-073-1)

AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP LMR

O

600.83

552.29

(XE8614)

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3.0248

PAGE 5835

20 033 51 3140	200	TARR ATED	IAT	_	RESSUR	DAT	0 + 4	A!48	PRESSURE DATA - OA!48 (AMES 11-073-1)	-073-1						ā.	PAGE 5836	9836
DAIE 13 FE) n			i	AMES 1	1-073	(0A14	68	AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP LMR	ORB 800	Y FLAP	7			(XEBG15	(XEBG15) (D5 AUG 75	92	ξ.
	ATAC POWED DATA													PARA	PARAMETRIC DATA	DATA		
ĸ	390.0000 SQ.FT.	?	H	10	76.683(z:	25						RUDDER =		800	SPOBRK -	M	35.000
LREF = 4 BREF = 9 SCALE = 9	474.8033 IN. 936.0680 IN. 0300	YMRP ZMRP		ιή	375.0000 IN. Z	żż	22					· -	R-ELVN =			#ACH		051.1
_	ALPHA (1) = -4.072	BETA (1) =	1		-3.851	Σ	MACH	•	± 1.0992	0	* 599	599.97	a.		709.32	RN/L = 3.1890		3. 1890
SECTION (SECTION (1) BODY FLAP LOWER	ER F			띪	PENDE	N VA	RIABI	DEPENDENT VARIABLE CP									
X/LB	1.0180 1.0460																	

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Z Z Z 709.32 709.32 599.97 ø 4.283 MACH = 1.0992 DEPENDENT VARIABLE CP DEPENDENT VARIABLE CP MACH . 189 3) = * (2) ALPHA (1) = -4.075 BETA ALPHA (1) = -4.070 BETA SECTION : 13BODY FLAP LOWER SECTION (1) BODY FLAP LOWER -.3765 -.2547 -.2952 -.2535 1.0180 1.0460 -.4111 -.3319 -.2987 -.2816 1.0180 1.0450 PH1 .000 40.003 .000 X/LB 87/X

-.3383 -.3175 -.3598 -.3103 1.000 1.000 40.000 -3.863 MACH = 1.0994 DEPENDENT VARIABLE CP ALPHA (2) = +.011 BETA SECTION (1)BCDY FLAP LOWER

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709.08

380.9

1.0180 E.Sues X/LB

-.3399 -.2309 -.2518 -.228* 7H1 .000 40.000 # ±

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PAGE 5837

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PAGE 5837	(XE8615)	= 709.08 RN/L = 3.1892				= 709.08 RNAL = 5.153E				= 711.89 RN/L = 3.1895			i	* 711.89 FAVL * 5.1850	•		į	= 711.89 HWL = 5.1055			
		<u>.</u>				<u> </u>				۵.				0 -				۵.			
•	ODY FLAP LWR					= 599.9 t				■ 598.5 ⁴				* 598.5 +				* 598.54			
1-623-1	R ORB B	ø				a				ø				a				ø			
PPESSURE DATA - DAIMB (AMES 11-073-1	AMES 11-073(04148) -1404/8/C/R ORB BODY FLAP LMR	.183 MACH = 1.0994	DEPENDENT VARIABLE CP			4.260 MACH = 1.0994	DEPENDENT VARIABLE CP			-3.870 MACH = 1.0960	DEPENDENT VARIABLE CP			.189 МАСН = 1.0960	DEPENDENT VARIABLE CP			4.249 MACH = 1.0960	DEPENDENT VARIABLE CP		
TABULATED P		(G)				i W ii				7 (I)				(2) =				33 =			
60 to 0.00 to		ALPHA (2) =004 BETA	SECTION (1'BODY FLAP LOWER	X/LB 1.0180 1.0460	1992 - 3438 - 3954 1000 - 3555 - 2341	ALPHA (2) =007 BETA	SECTION (1) BODY FLAP LOWER	2010 1.0460 1.0460	PHI .03034:52837 40.00031632735	ALPHA (3) = 3.931 BETA	SECTION : 11800Y FLAP LOWER	X/L9 1.0160 1.0460	. 500 +1.31742741 .5.05524842587	ALPHA (3) = 5.932 BETA	SECTION 1 11500Y FLAP LOSER	09+0:1 0810:1 87.X	943 .00031092836 .000.0024762272	ALPHA (3) = 3.935 BETA	SECTION (11903Y FLAP LOWER	X/28 1.0480 1.0460	E455 8415 600. - 600 4774 600.04

DATE 13 FEB 76 TABULATED PRESSURE DATA - DAIW8 (AMES 11-073-1)	NMES 11-073-			•		PAGE 5838
AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP LMR	A/B/C/R ORB	BODY FLAP LUR		(XE8615)	3	
A. PHA (4) = 7.884 BETA (1) = -3.865 MACH = 1.0986	0 986	= 599.29	۵.	= 709.30	ž	3.1886
SECTION (1) BODY FLAP LOKER DEPENDENT VARIABLE CP	<u>ş.</u>					
X/LB 1.0180 1.0460						
. PHI . 000 2781 2571 . 40.000 2380 225 5						
ALPHA (%) = 7.965 BETA (2) = .179 MACH = 1.6986	0 98	= 599.29	۵.	- 709.30	FW/L	= 3.1986
SECTION (1) BODY FLAP LOWER DEPENDENT VARIABLE CP	Q.					
X/LB 1.0180 1.0460						
PH1 .00025402419 40.00021562089						
ALPHA (4) = 7.956 BETA (3) = 4.242 MACH = 1.0986	0 98	= 599.29	٥	709.30	1/2	3,1856
SECTION (1) BODY FLAP LOWER DEPENDENT VARIABLE CP	Q.					
X/LB 1.0190 1.0460						
PHI .50027382531 49.600246229831						
ALPHA (51 = 11.925 BETA (1) = -3.850 MACH = 1.0981	0 18	58.83	۵	= 709.53	7/8	3.1856
SECTION (1) BODY FLAP LOWER CP						
X/LB 1.0185 1.0460						
PHI .0002151 90.00019052043						
ALPHA (5) = 11.933 BETA (2) = .177 MACH = 1.0981	ن 1	= 598.93	۵.	= 709 53	PN/L	3.1856
SECTION (1) BODY FLAP LOWER DEPENDENT VARIABLE CP						
X/L9 1.0180 1.0460						
PHI .00021932321 40.00019932005						

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TASJLATED PRESSURE DATA - CALMB (AMES 11-073-1)

1XEBG153

AMES 11-073(0A148) -140A/B/C/R CRB BODY FLAP LIR

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ø 4.259 MACH = 1.0981

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3.1856

PAGE 5839

DATE 13 FEB 76

DEPENDENT VARIABLE CP BETA (3) = SECTION (11800Y FLAP LOWER ALPHA (5) = 11.928

1.0180 1.0463

X/LB

-.2389 -.2335 -.241! -.2454 PHI .000 40.000

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DATE 13 FFB 75	TABULATED PRESSURE DATA -	- 0A148 (AMES 11-073-1	(-073-1)					ď.	PAGE 5840
	AMES 11-073(0A148)	AIHB) -140A/B/C/R ORB BODY FLAP LHR	ORB BOD	FLAP LHR			(XEBC15)	1 D5 AUG	S 75)
						PARA	PARAMETRIC (CATA	
:	N1 0000				RUDDER .				35.200
SPEF = 2690.0000 SO.FT. LPEF = 474.8000 IN. BPEF = 935.0680 IN. SCALE = .0300	XMMP = 10.76.5800 IN. YO ZMRP = 375.0000 IN. ZO	200			BOFLAP = R-ELVN =			# # Z H Z H Z H Z H Z H Z H Z H Z H Z H	
ALPHA (!) = -4.023 BETA	IA (1) = -3.852 MACH	H = .90217	G	= 601.77	a .		1056.2	1/8	3.5811
SECTION (1) BODY FLAP LOWER	DEPENDENT VARIABLE	VARIABLE CP							
X/LB 1.0180 1.0460									
PHI .co07561493 .40.00014561597									
ALPHA (1) = -3.925 BETA	TA (2) = .188 MACH	71536. = н	a	501.77	Q.	-	1056.2	%	1 80 P
SECTION (1:300Y FLAP LOWER		DEPENDENT VARIABLE CP							
X/LB 1.0180 1.1 +50									
PHI .03007131564 90.00012761679					ı		(1	ž	
ALPHA (1) = -3.933 BETA	TA (3) = 4.285 MACH	. 90217	0	• 601.77	<u>.</u>	•	1000.6	i e	1
SECTION (1) BODY FLAP LOWER		DEPENDENT VARIABLE CP							
X/LB 1.0180 1.0460				٠					
.coc08511502 .coc08511502 .coc10171528								į	
ALPHA (2) = .017 BE	BETA (1) = -3.871 MACH	. 89983 - н	o	₌ 599.6∂	a		1058.1	Š	n P P
SECTION (11800Y FLAP LOWER		DEPENDENT VARIABLE CP							
X/L9 1.0180 1.0460									
PHI .00007431478 40.00014141495									

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27 833 51 3120	TABULATED F	PRESSURE DATA - CA148 (AMES 11-073-1)	1-073-1		•			<u>α</u>	PAGE 5841	
!		ANES 11-073(0A146) -140A/B/C/R ORB BODY FLAP LUR	1R ORB BO	Y FLAP LA	Œ	(XE	(XE8G16)			
ALPHA (2) =	.043 BETA (2) =	.183 MACH = .89083	o	s 599.69	Q	= 1058.1		RN/L	3.5748	m
SECTION (1180DY	OY FLAP LOWER	DEPENDENT VARIABLE CP								
X/LB 1.0180	30 1.0460									
PH1 . COO 0836 +0.000 1278	36 - 1568 78 - 1625									
ALPHA (2) =	.037 BETA (3) =	4.263 MACH = .89983	o	- 599.69	<u>a</u>	= 1058.1	=	- T	3.5748	3 0
SECTION (1) BODY FLAP LOWER	JOY FLAP LOWER	DEPENDENT VARIABLE CP								
X128 1.0180	S0 1.0+60									
000 000.0+ 000 000.0+	319 - 1460 180 - 1562	·						;		
ALPHA (3) =	3.891 BETA (1) =	-3.877 MACH = .90107	a	= 600.53	a	= 1056.6	9.	3	3.5 /22	u
SECTION (1)BODY FLAP LOWER	ODY FLAP LOWER	DEFENDENT VARIABLE CP								
x/LB 1.0180	1.0450									
PH: .0000591 40.0001398	5911402 3981485									
ALPHA (3) =	4.016 BETA (2) =	.188 MACH = .90107	O	= 600.53	<u>a.</u>	• 1056.6	9.0	1 1	3.572 8	u
SECTION (1)BC	SECTION (1) BODY FLAP LOWER	DEPENDENT VARIABLE CP								
0810*1 ET/X	1.0460									
PHI .3000508 43.6001117	5081390 1171461							:		g
ALP44 (3) =	4.017 SETA (3) =	4.257 MACH = .90107	o	= 600.53	Д	= 1056.6	رن ش	1	* 3.5/cc	Ņ
SECTION (1180	SECTION (1)BODY FLAP LOWER	DEPENDENT VARIABLE CP								
10.1 B2/X	1.6180 1.6460									
PH1 . 000 = . 36 . 16	05641411 10171520									

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TABLILATED P	TABLE ATED PRESSURE DATA - OAIVB (AMES 11-073-1)			ď	PAGE 5842	ď
	AMES 11-673(0A148) -140A/B/C/R ORB BODY FLAP LNR	Œ	(XE8616)			
ALPHA (4) = 7.978 BETA (1) =	-3.868 MACH = .90107 0 = 600.53	a.	1056.6	RN/L	₩ M	3.5741
SECTION (1) BODY F' AP LOWER	DEPENDENT VARIABLE CP					
X/LB 1.0160 1.0460						
PH1 .G0003971308 +0.00013251339			1			Í
ALPHA (4) = 7.924 BETA (2) =	.181 MACH = .90107 0 = 600.53	e.	1056.6	EN/L		5.0/4
SECTION (1) BODY FLAP LOWER	DEPENDENT VARIABLE CP					
X/LB 1.0180 1.0460						
.00004531309 .00010931442						
ALPHA (4) =921 BETA (3) =	4.257 MACH = .90107 Q * 600.53	e.	1056.6	1	m m	3.574
SECTION (1)BODY ELAP LOWER	DEPENDENT VARIABLE CP					
X/L9 1.0180 1.0460 \						
PH1 .60004581291 40.00009451462				i		
ALPHA (5) = 11.916 BETA (1) =	-3.856 MACH = .90000 Q = 599.65	er er	1057.6	1	, ,	5. 0/2
SECTION : 1) BODY FLAP LOWER	DEPENDENT VARIABLE CP				•	
X/LB 1.0180 1.0+60						
PHI .00008501255 40.00013601313				į	•	Ê

3.5741

3.57⁴¹

-.1223 -.1036 PH1 . 050 40.050

= 3.5745

RYL

• 1057.6

599.65

.182 MACH - .90000 DEPENDENT VARIABLE CP

ALPHA (5) = 11.928 BETA (2) =

SECTION (1) BODY FLAP LOWER

1.0180 1.0450

X/LB

3.5745

The second second

AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP LWR

TABULATED PRESSURE DATA - DAIWB (AMES 11-073-1)

= 3.5745

RN/L

(XE8616) 1057.6

PAGE 5843

4.273 MACH = .90000 DEPENDENT VARIABLE CP BETA (3) = ALPHA (5) = 11.917

SECTION 1 11BODY FLAP LOWER

1.0180 1.0460 PHI .000 +0.000 87./X

-.0625 -.1359 -.0838 -.1421

DATE 13 FEB 78

4.8216 4.8216 4.8216 PAGE 5844 (05 AUG 75 SPOBRK -L-ELVN -MACH -**1**2 ž Z Z PARAMETRIC DATA (XE8617) 2386.4 2386.4 888 2386.4 2386.4 RUDDER -BDFLAP -R-ELVN -٥ AMES 11-073(0A148) -140A/B/C/R ORB BOOY FLAP LMR 595.28 595.28 595.28 TAGULATED PRESSURE DATA - DAIMB (AMES 11-073-1) 0 • 5969⁴ DEPENDENT VARIABLE CP DEPENDENT VARIABLE CP DEPENDENT VARIABLE CP DEPENDENT VARIABLE CP -7.854 MACH 1076.6800 IN. XO .0000 IN. YO 375.0000 IN. ZO MACH 4.270 MACH MACH -3.838 BETA (1) = ر ري اي XMRP YMRP ZMRP BETA ALPHA (1) = -4.086 BETA REFERENCE DATA SECTION (1)BODY FLAP LOWER SECTION (1) BODY FLAP LOWER SECTION (1)BODY FLAP LOWER SECTION (1)BODY FLAP LOWER 2590.0000 SO.FT. 474.8000 IN. 936.0680 IN. -. 1923 -. 1540 -.175**5** -.1614 -.1767 1.0180 1.0460 1.0180 1.0460 -.1212 -.1343 -.1231 -.1582 1.0180 1.0460 1.0450 ALPHA (1) = -4.112 -4.079 -4.086 -. 1312 -. 1279 -.1178 -. 1229 -. 1259 DATE 13 FEB 76 ALFHA (1) = ALPHA (1) = . 000 40.000 900.04 40.000 .000 40.000 40.000 40.000 X/LB X/LB X/LB X/LB

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TABULATED PRESSURE DATA - DAINB (AMES 11-073-1	~	
PRESSURE DATA - DAI48 ()	Ξ	
PRESSURE DATA -	AMES	
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1.

PAGE 5845

		RN/L = 4.8216		
	(XE8017)	■ 2386.4 R		
		۵.		
	LAP LWR	595.28		
	BODY F			
-010-1	A ORB	O		
PRESSURE DATA - DATAS (MIRS 11-0/3-1 /	AMES 11-073(04148) -140A/B/C/R ORB BODY FLAP LMR	8.352 MACH = .59694 0	DEPENDENT VARIABLE CP	
24.40	- (84)	۵,	/ARIAE	
4	7310A	MACH	DENT	
יאליטטאין אי	AMES 11-0	8.352	DEPEN	
ABULATED P		#1		
TAE		BETA (5)	LOWER	
		-4.101	ODY FLAP	
DATE 13 FEB 76		ALPHA (1) = -4.101	SECTION (1) BODY FLAP LOWER	

594.20 DEPENDENT VARIABLE CP -7.892 MACH BETA SECTION (13BODY FLAP LOWER -.1872 1.0180 1.0460 1.0190 1.0460 .08 -.1280 ALPHA (2) = 40.000 40.000 X/LB BT/X

2386.3

594.20 DEPENDENT VARIABLE CP MACH -3.858 # (*2*) **EETA** SECTION (1)BODY FLAP LOWER -.1130 -.1764 -.1199 -.1457 -.1182 -.1775 -.1132 -.1457 1.0190 1.0460 +60. ALPHA (2) = .000 40.000 PHi . 200 40. 000 e7/x

2386.3 594.20 ± .59642 DEPENDENT VARIABLE CP . 198 MACH SECTION (1) BODY FLAP LOWER 1.0183 1.0460 -.1170 -.1730 -.1303 -.1580 .071 ALP∺A (2) = 40.000 40.000 X/LB

4 8159

4.8159

2386.3

594.20 .59642 DEPENDENT VARIABLE CP MACH 4.249 BETA SECTION (1) BODY FLAP LOWER .058 ALPHA (2) =

1.0180 1.0460 -.1290 -.1766 -.1319 -.1712 990 .000 40.030 X/LB

DATE 13 FEB 76 TABULATED	PRESSURE DA	TABULATED PRESSURE DATA - 0A148 (AMES 11-073-1	11-073-	-					aï.	PAGE 5845	ð
	AMES 11-07	AMES 11-073(04148) -140A/B/C/R ORB 30DY FLAP LMR	C/R ORB 3	30DY F	LAP LWR		Š	(XEBG17)			
ALPHA (2) = .061 BETA (5) =	8.308 MACH	MACH = .59642	Ø	R	594.20	Q	= 2386.3	ю. •	FRYL	# #	4.8159
SECTION (1) BODY FLAP LOWER	DEPEND	DEPENDENT VARIABLE CP									
X/LS 1.0180 1.0460											
PHI .00012001751 40.00011931649											!
ALPHA (3) = 4.005 BETA (1) =	-7.903	MACH = .59616	o	•	593.73	۵.	= 2386.3	ب. س	RN/L		4.8137
SECTION : 1) BODY FLAP LOWER	DEPEND	DEPENDENT VARIABLE CP									
X/LB 1.0180 1.0460											
PH: .20011501718 40.00011021369											
ALPHA (3) = 4.010 BETA (2) =	-3.866	MACH = .59616	o		593.73	۵	2386.3	6.3	FN/L	ii U	4.8137
SECTION (1) BODY FLAP LOWER	DEPEND	NEPENDENT VARIABLE CP									
x/La 1.0180 1.0460											
PH: .00010871705 40.00011181348											
ALPHA (3) = 4.008 BETA (3) =	.197	MACH ≈ .59616	0		593.73	•	- 2386.3	6.3	Z Z	<i>±</i>	4.8137
SECTION (1) BODY FLAP LOWER	DEPEND	DEPENDENT VARIABLE CP									
X/LB 1.0180 1.0460											
#191 0+01 000 - 000 - 0000 - 00000 - 0000 - 000											i
ALPHA (3) = 4.011 BETA (4) =	4.242	MACH 59616	o	•	593.73	•	8 238	2386.3	1 1 1	j I	4.8137
SECTION 1 11BODY FLAP LOWER	DEPEN	DEPENDENT VARIABLE CP									
X/LB 1.0180 1.0460											
PHI - 1678 - 200 - 1101 - 1678 - 200 - 40,000 - 1177 - 1597											

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TABULATED PRESSURE DATA - OA148 (AMES 11-073-1)	GITT OF ILL ACCOUNTS OF COMMENTS OF THE COMMEN
TABULATED PRESSURE DATA -	
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CATE 13 FEB 76 TABULATED PRES	TABULATED PRESSURE DATA - OA148 (AMES 11-073-1)	1-073-1					PAGE 5847
AME	ANES 11-073(0A148) -140A/B/C/R ORB BODY FLAP LMR	R ORB BO	OY FLAP LWR		(XE8617)		
12 PHA (3) = . 014 BETA (5) = 8	8.290 MACH = .59616	σ	= 593.73	۵.	= 2386.3	RN/L	4.8137
SECTION (1) BODY FLAP LONER	DEPENDENT VARIABLE CP						
X/LB 1.0180 1.0460							
PH1 .00011241635 .00011431640						į	
ALPHA (4) = 7.901 BETA (1) = -7	-7.891 MACH = .59550	o	594.32	C	- 2386.1	HAY L	4.0107
SECTION (1)BODY FLAP LOWER	CEPENDENT VARIABLE CP						
X/LB 1.0180 1.0460							
PH1 .00009501698 40.00010121337						;	
ALPHA (4) = 7.913 BETA (2) = -:	-3.864 мАСН ≈ .59650	ø	594.32	a	= 2385.1	RS/L	4.6187
SECTION (1)BODY FLAP LOWER	CEPENDENT VARIABLE CP						
x/LB 1.0180 1.0450							
PHI .00008981617 .00009711285						į	
ALPHA (4) = 7.919 BETA (3) =	.190 MACH = .59550	0	594.32	Q.	- 2386.1	KK/	, cio.
SECTION (1)BODY FLAP LOWER	DEPENDENT VARIABLE CP						•
X/LB 1.0180 1.0460							
PH1 .000 -,09351552 40.000 -,10581393					9	į	: :
ALPHA (4) = 7.918 BETA (4) =	4.240 MACH = .59650	o	594.32	C	- 2386.1	FRY L	7.010
SECTION 1 1180CY FLAP LOWER	DEPENDENT VARIABLE CP						
X/LB 1.0180 1.0460							
PH1 .03009411503 .030.04							

()

DATE 13 FEB 76 TABULATED PRESSURE DATA - DAI48 (AMES 11-073-1)	PAGE	PAGE 5848
AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP LWR (XEBG17)		
ALPHA (4) = 7.914 BETA (5) = 8.294 MACH = .59650 Q = 594.32 P = 2386.1 RN	RN/L .	4.8187
SECTION (1'83DY FLAP LOWER DEPENDENT VARIABLE CP		
X/2B 1.0180 1.0460		
FHI .00010581701 40.00010841678		
ALPHA (5) = 11.926 BETA (1) = -7.855 MACH = .59628 Q = 593.97 P = 2386.5 RN	FN/L .	4.8170
SECTION (1)BODY FLAP LOWER DEPENDENT VARIABLE CP		
X/29 1.0180 1.0450		
PH! .33007971522 ⊌0.00008871232		
ALPHA (5) = 11.949 BETA (2) = -3.840 MACH = .59628 Q = 593.97 P = 2386.5 RN	RN/L .	H.8170
SECTION (1:80DY FLAP LOWER DEPENDENT VARIABLE CP		
X/LB 1.0180 1.0460		
PH! .500072411468 .50008291177		
денд (5) = 11.954 BETA (3) = .189 MACH = .59628 0 = 593.97 P = 2386.5 RN	FN/L =	4.3170
SECTION (1)BODY FLAP LOWER DEPENDENT VARIABLE CP		
X/LB 1.0180 1.0460		
PHI		
ALPHA (5) = 11.952 BETA (4) = 4.250 MACH = .59628 Q = 593.97 P = 2386.5 RN	RN/i.	4.8170
SECTION (1)BODY FLAP LOWER PERDENT VARIABLE CP		
X/LB 1.0180 1.0460		
#EHI:- 9080:- 000:04 #EHI:- 1980:- 000:04		

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	2	RN/L			
	(XEBG17)	- 2386.5			
		۵.			
18 (AMES 11-073-1)	AMES 11-07310A148) -140A/B/C/R ORB BODY FLAP LMR	.59628 0 = 593.97	ABLE CP		
TABULATED PRESSURE DATA - DAINB (AMES 11-073-1)	AMES 11-073(0A148)	5) = 8.320 MACH = .59628	DEPENDENT VARIABLE CP		
DATE 13 FEB 76 TABU		A_PHA (5) = 11.942 BETA (5) =	SECTION (.) BODY FLAP LOWER	X/LB 1.0180 1.0460	PHI

TABULATED PRESSURE DATA - DAIMB (AMES 11-073-1)

4.8170

PAGE 5849

DATE 13 FEB 76 TABULATED	•	(-	PAGE 5850
	AMES 11-07310A148) -140A/B/C/R ORB BODY FLAP LMR	라. 보고 보고		(XEBG1B)	 =	2
BEFFBENCE DATA				PARAMETRIC	DATA	
SREF = 2690.0000 SQ.FT. XMRP LREF = 474.8000 IN. YMRP BREF = 936.0680 IN. ZMRP CAN F = 036.0680 IN. ZMRP	= 1076.6890 IN. XO = .0000 IN. YO = 375.0000 IN. ZO		RUDDER = BDFLAP = R-ELVN =	.000 .000 .000	SPOERK = L-ELVN = MACH =	000. 0004.1
(1) = -4.050 BETA (1) = -3.854 MACH = 1.3965 0 = 59	599.95	۵.	= 439.47	FN/L	≠ 2.9144
SECTION (1) BODY FLAP LOWER	DEPENDENT VARIABLE CP					
X/LB 1.0180 1.0460						
PHI .00044514585 .00045803408					į	
ALPHA (1) = -4.042 BETA (2) = 192 MACH = 1.3965 0 = 59	599.95	۵.	ж. 436.ж. ж.	1	7 1 1 1 1 1 1
SECTION (178 OF FLAP LOWER	CEPENDENT VARIABLE CP					
X/LB 1 5.80 1.0460						
1955 - 1,24, - 000°C+ 000°C+ 2144°C+ 000°C+ 1945°C+ 1,241°C+ 000°C+					i	a () () ()
ALPHA : 1) = -4.05; BETA (3) = 4.295 MACH = 1.3965 0 = 59	599.95	۵.	439	ž Ž	: u
SECTION (1)BODY FLAP LOWER	DEPENDENT VARIABLE CP					
X/LB 1.0190 1.0460						•
146.000 - 1441 14577 16.000 - 2423 - 3423					i	
ALPHA (2) =033 BETA (;) = -3.874 MACH = 1.3950 Q = 56	599.63	a	- 443.18	17	គ្នេក គ
SECTION (1) BODY FLAP LOWER	DEPENDENT VARIABLE CP					
X/LB 1.0180 1.5460						
PH1 .C00+0964241 +0.030+3553196						

J

1.3 1.3 1.3 1.4 1.4 1.4

DATE 13 FES 76 TABULATED PRE	PRESSURE DATA - DAINB (AMES 11-073-1)	1-073-1	9	9			(XEBG#B)	ū.	PAGE 5851	282 1
AM	AMES 11-673(0A148) -140A/B/C/R ORB BODY FLAP LWR	R ORB B(JOY FLAP L	<u> </u>			1 75 90 1 91			
ALPHA (2) =025 BETA (2) =	.136 MACH = 1.3950	æ	= 599.63	ñ	ı		440.18	7	•	2.9101
SECTION (1) BODY FLAP LOWER	DEPENDENT VARIABLE CP									
X/LB 1.0180 1.0469										
Hq 1000 - + 1504 - 000. 1000 - + 1504 - 000.							•	į	,	9
ALPHA (2) =030 BETA (3) =	4.265 MACH = 1.3950	ø	= 599.63	53	۵.	#	440.18	Š		
SECTION (1) BODY FLAP LOWER	DEPENDENT VARIABLE CP									
X/LB 1.01SG 1.0469										
PH1 .00040834271 40.00039523082								i		
ALPHA (3) = 3.919 BETA (1) = -	-3.877 MACH = 1.3940	ø	± 599.41	-	a	n	440.65	1 X		r. 130
SECTION (1) BODY FLAP LOWER	DEPENDENT VARIABLE CP									
X/L9 1.018C :.3463		-								
PHI .00037493899 000.0039252839								;		i
ALPHA (3) = 3.922 BETA (2) =	.185 MÁCH = 1.3940	a	= 599.41	<u> </u>	a.		440.65	1	4	6015.V
SECTION (1)BODY FLAP LOWER	DEPENDENT VARIABLE CP									
X/L9 1.0180 1.0460										
PH1 .00037%03905 %0.000371%2802							}	į	1	á
ALPHA (3) = 3.923 BETA (3) =	4.255 MACH = 1.3940	σ	= 599.41	;	۵		440.65	Š	H	n n n
SECTION (1)BODY FLAP LOWER	DEPENDENT VARIABLE CP									
X/LB 1.0180 1.0460										
PH1 .5003773954 .0.0003535000.04										

<u>/...</u>

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7.792 BETA (1) = 00Y FLAP LCAER 160 1.0460 7.791 BETA (2) = 00Y FLAP LOWER 180 1.0460 7.919 BETA (3) = 00Y FLAP LOWER 180 1.0460 11.607 9ETA (1) = 11.507 13314 133133349 3335933349	DATE 13 FEB 76 TABULATED		SSURE DATA	PRESSURE DATA - 0A148 (AMES 11-073-1)	1-073-1	_				ā	PAGE 54	2825
1.0180 1.048 8714 111 = -3.867 MACH 1.3956 Q 996 P 9439.39 P 9			ES 11-073	(0A14B) -140A/B/C/	'R ORG BC	ነ <mark>ን</mark>	AP LWR		(XEBG18)			
1.0160 1.0460	* 7.792 BETA				G		*& 66	۵	39.94	1/ N 2/	~	2.9123
1.0160 1.0460 2000 - 3946 - 3593 2000 - 3946 - 3593 2000 - 3940 - 2510 2000 - 3940 - 2510 2000 - 3940 1.0460 2010 - 3356 - 3595 2010 - 3356 - 3595 2010 - 3359 - 3694 2010 - 3359 - 3695 2010 - 3359 - 3695 2010 - 3449 - 3495 2010 - 3449 - 3496 2010 - 3449 - 3449 2010 - 3449 2010 - 3449 2010 - 3449 2010 - 3449 2010 - 3449 2010 -	SECTION (1'BOOY FLAP LOWER		DEPENDE	NT VARIABLE CP								
000 - 3560 - 3593 0022510 0032510 0042510 0052510 0052510 0072510 0072510 0072510 0072510 0082510 0082510 0082510 0092510	1.0160											
1.0180 1.0460 1	3460										ı	
1.0180 1.0460 1	* 7.791 BETA (1	ø		99.8 4	Δ.	39.¥	-/- -/	™	2.9129
1:0180 1.0%60 33.0033563555 33.0033592%84 3 (%) 7 7.919 BETA (3) = %.252 MACH = 1.3956 Q = \$990.64 P = %39.54 3 (%) 7 7.919 BETA (3) = %.252 MACH = 1.3956 Q = \$990.64 P = %39.54 3 (%) 7 7.919 BETA (1) = -3.848 MACH = 1.3965 Q = \$990.64 P = %39.54 3 (%) 7 8792%82 3 (%) 8.55793593 3 (%) 8.55793593 4 (%) 8.55793593 3 (%) 8.55793593 3 (%) 8.55793394 3 (%) 8.	SECTION (1) BODY FLAP LOWER		DEPENDE	NT VARIABLE CP								
03033963555 01033963555 02033562355 03033562484 03033562484 03033573562 04 (1) = 4.552 MACH = 1.3956	1.0180											
1.0180 1.0460 1	3396 3++9											
1.0180 1.0450 1.0450 1.0450 1.0180 1.0450 1.0450 1.0180 1.0450 1.0450 1.0180 1.0450 1.0450 1.0579 1.0529 1.0579 1.0579 1.0570 1.0580 1.0450 1.0450 1.0180 1.0450 1	. 7.919 BETA (ı	σ		99.84	۵	39.94	1/2	H.	ان ازن ازن
1.0180 1.0950 1.0180 1.0950 4 (5) = 11.507 SETA (1) = -3.898 HACH = 1.3965	SECTION . 1.800Y FLAP LOWER		DEPENDE	NT VARIABLE CP								
CCO	1.0180											
1.0180 1.046R	3450 3579											;
1.0180 FLAP LOWER DEPENDENT VARIABLE CP 1.0180 1.0469 1.0180 1.0469 1.0180 1.0469 1.0180 1.0460 1.	± 11.507 9ETA (#	-3.848 M	H	Ø		593.65	۵.	¥.35.	:1 Z:	#	군. #] F3
1.0180 i.0469 1.01383314 2.0233832336 3.1383314 2.0233832336 3.1815 BETA i 2) = .187 MACH = 1.3965 0 = 599.65 F = 439.24 11.0180 1.0460 1.0180 1.0460 1.018031373349 2.003137236	SECTION (1)BODY FLAP LOWER		DEPENDE	NT VARIABLE CP								
00331383314 00333832336 4 (5) = 11.815 BETA (2) = .187 MACH = 1.3965 0 = 599.65 P = 439.24 FICH (1)BODY FLAP LOWER DEPENDENT VARIABLE CP 1.0180 1.0450 1.0180 1.0450 1.018031373349 605315723592762	1.0:80											
1 (5) = 11.815 BETA (2) = .187 MACH = 1.3965 0 = 599.65 F = 439.24 1.0180 1.0460 1.0180 1.0460 1.018031373349 1.00031582762	3138										'	1
1:CN 1 118CDY FLAP LOWER 1.0180 1.GNG0 1.018313733N9 1.00533582762	* 11.815 BETA !	ان *		*	o		59.65	Œ.	ر ۾	7	*	2.9163
1.0180 1.0180 2.000 2.000 3.358	SECTION (1) BODY FLAP LOXER		CEPENDE	NT VARIABLE CP								
3137	1.0180											
	00031 <i>37</i> 6653358											

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DATE 13 FEB	FEB 76 TABUL	TABULATED PR	ว 3ยกรรวษ	1ATA - 0.	PRESSURE DATA - 0A148 (AMES 11-073-1)	1-073-1	_					PA	PACE 5853	23
		7	AMES 11-0	17310214	AMES 11-073(04148) -140A/B/C/R ORB BODY FLAP LMR	R ORB BC	DY FL	AP LWR		_	(XE8318)			
ALPHA (5)	= 11.810 BETA (3) =	4.268	MACH	= 1.3965	ø	# #	599.65	۵.	¥ n	439.64	1/2 24/2	ռi #	2.9163
SECTION (SECTION (1)BODY FLAP LOWER		DEPEN	DENT VA	DEPENDENT VARIABLE CP									
X/LB	1.0180 1.0460		•											
971 .000 40.000	3179338! 34503298													â
ALPHA (6)	= 15.936 BETA (-3.833	MACH	-3.833 MACH = 1.3951	ø	W.	599.73	۵	3 11	440.18		ù n	r. V.
1 NO1133S	SECTION (1)800Y FLAP LOWER		CEPEI	VDENT VA	DEPENDENT VARIABLE CP									
X.'LB	1.0180 1.0460													
PH1 : 333 40 : 04	29393074 32483067													į
ALPHA (6)	= 15.920 BETA (. 5	19	. 184 MACH	- 1.3951	O		599.73	۵	Ī.	440.18	7 Z	ni #	Z. 61
SECTION 1	SECTION (1)BOOY FLAP LOWER		DEPE	NOENT VA	DEPENDENT VARIABLE CP									
x/La	1.0180 1.0450													
PH! .530 40.003	28423072 31983191													
Alpua (6)	= 15.910 BETA	(3) =	4.299	4.299 MACH	= 1.3951	o		599.73	۵.	<i>x</i>	8: .O**	1	ni H	₹.6.5 ₽
SECTION (SECTION (11900Y FLAP LONER		05PE	NDENT VA	DEPENDENT VARIABLE CP									
X/L9	1.0180 1.0453													
PH1 .005 .005	28172993 3181335	·												

S :1-073-1)	I/C/R ORB BODY FLAP LWR (XEBGIS) 1 D5 AUG 75 3	PARAMETRIC DATA	RUDDER = .000 SPCSK = .000 BOFLAP = -11.700 L-ELVN = .000 R-ELVN = .000 MACH = 1.250	3 0 * 600.12 P * 559.64 RN/L * 3.0130			ı	3 0 = 600.12 P = 550.54 RN/L = 3.1080				8 0 * 600.12 P * 550.54 RVL * 3.185				1 0 = 599.71 F = 550.87 FN/L = 5.01.18				
TABULATED PRESSURE DATA - DAI48 (AMES :1-073-1	AMES 11-073(0A148) -140A/B/C/R ORB		XMRP = 1076.6800 IN. XO YMPP = .0000 IN. YO ZMRP = 375.0000 IN. ZO	(1) = -3.848 MACH = 1.2478	R DEPENDENT VARIABLE CP			(2) = 1.92 MACH = 1.2478	R DEPENDENT VARIABLE CP			(3) = 4.283 MACH = 1.2478	R DEPENDENT VARIABLE CP			BETA (1) = -3.861 MACH = 1.2471 0	R DEPENDENT VARIABLE CP	•		
DATE 13 FEB 75	<u>.</u>	REFERENCE DATA	= 2690. = +74. = 936.		SECTION (1) BODY FLAP LOWER	X/LB 1.0180 1.0450	PHI .00355105712 +0.0005384	ALPHA (!) = -3.974 BETA	SECTION (1)BODY FLAP LOWER	X/LB 1.0180 1.0460	PHI .000 - 5483 - 5629 .000.04	ALPHA (1) = -3.984 BETA	SECTION (1) BODY FLAP LOWER	X/LB 1.0180 1.0460	PH1 .00054725552 90.04 - 000.24	ALPHA (2) =051 BE	SECTION : 1180DY FLAP LOWER	X/LB 1.0180 1.0460	PHI .00051085295 .0005508	

The second constitution of the second
TABULATED	PRESSURE DATA - DAI48 (AMES 11-073-1)	1-073-1					PAGE 5855	5855
		R ORB BODY FLAP	LMR		(XE8G19)			. !
ALPHA (2) =007 BETA (2) =		0 = 599	599.71	۵	= 550.87	7.NE		3.6"79
SECTION (1) BODY FLAP LOWER	DEPENDENT VARIABLE CP							
X/LS 1.0180 1.0460								
PHI .000508+5267 .00047113623						:		(:
ALPHA (2) =013 BETA (3) =	= 4.263 MACH = 1.2471	. 596	599.71	۵	= 550.87	%		7. 10. 5.
SECTION (1) BODY FLAP LOWER	DEPENDENT VARIABLE CP							
X/L5 1.0183 1.0450								
Hei . 23751335315 .4.00047053760								1
ALPHA (3) = 3.859 BETA (1) =	= -3.073 MACH = 1.2484	0 = 60(600.53	۵.	= 550.41	RN/L		3.0214
SECTION (1)BODY FLAP LOWER	DEPENDENT VARIABLE CP							
X/LB 1.0180 1.0460								
PHI . G00 4755 4959 . 4610 3267								•
ALPHA (3) = 3.906 BETA (2) =	= 1.2484	0 - 60	600.53	Ω,	550.41	78 1	•	3.0214
SECTION (1)BODY FLAP LOWER	DEPENDENT VARIABLE CP						•	
X/L3 1.0180 1.0460								
PH1 .0004698902 .00044463273						,		
ALPHA (3) = 3.928 BETA (3) :	= 4.253 MACH = 1.2484	09 = 0	600.53	۵.	* 550.41	E		5. 0c14
SECTION 1 1380DY FLAP LOWER	DEPENDENT VARIABLE CP							
X/L9 1.0180 1.0460								
PHI .00047454940 40.00043213195			•					

DATE 13 FEB 76 TABULATED F	TABULATED PRESSURE DATA - OAI48 (AMES 11-073-1)	-073-1				-	PAGE 5858	
	AMES 11-073(04148) -140A/B/C/R ORB BODY FLAP LMR	ORB BODY	FLAP LWR		(XE8619)			
ALPHA (4) = 7.851 BETA (1) =	-3.877 MACH = 1.2474	•	600.07	a	- 550.87	PN/L	3.0223	ίŪ
SECTION (1) BODY FLAP LOWER	DEPENDENT VARIABLE CP							
X/LB 1.0180 1.0460								
PH1 .00044324631 40.00042003000								
ALPHA (4) = 7.97! BETA (2) *	.182 MACH # 1.2474	•	600.07	۵	550.87	J/NE	3.0223	M
SECTION (1)BODY FLAP LOWER	DEPENDENT VARIABLE CP							
X/LB 1.0180 1.0460								
PH1 .00094434675 40.00041563022								
ALPHA (4) - 7.972 BETA (3) =	4.253 MACH = 1.2474	•	600.07	۵	- 550.87	RNI	# 3.0223	ĬŲ
SECTION (BUDY FLAP LOWER	DEPENDENT VARIABLE CP							
X/LB 1.0180 1.0460 .								
Fn1 .00044764682 40.00044403096								
ALPHA (5) = 11.905 BETA (1) =	-3.844 MACH = 1.2483	•	14.009	۵.	= 550.41	RN/L	■ 3.0229	ģ
SECTION (1)BODY FLAP LOWER	DEPENDENT VARIABLE CP							
X/LB 1.0180 1.0460								
PHI .00041914412 40.00040332789								
ALPHA (5) = 11.915 BETA (2) =	.187 MACH = 1.2483		600.41	۵	· 550.41	RN/L	= 3.0228	Q 0
SECTION (1)BODY FLAP LOWER	DEPENDENT VARIABLE CP							
X/LB 1.0130 1.0460								
Ph.1 .00041784389 +0.00042712941								

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DATE 13 FEB 76

AMES 11-073(04148) -1404/8/C/R ORB BODY FLAP LMR TABULATED PRESSURE DATA - DAINB (AMES 11-073-1)

(XE8619)

DEPENDENT VARIABLE CP 4.259 MACH BETA (3) = SECTION (1) BODY FLAP LOWER A_PHA (5) = 11.907

1.0180 1.0460 X/LB

PH! .000 40.000

-.4201 -.4453 -.4417 -.3175

= 1.2483

= 600.41

RNI 550.41 = 3.0228

PAGE 5857

PAGE 5858

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	000.	3.1893				3,1893	
		•				n	
DATA	SPOBRK = L-ELVN = MACH =	RN/L				RN/L	
PARAMETRIC DATA	.000.	107.48				707.48	
u.		•				•	
	RUDDER BOFLAP R-ELVN	۵.				a.	
		601.56				601.66	
		#				•	
		0				o	
		250	<u>8</u>			022 CP	
		= :	ע (= 1.1022	
			RIAB			= RIAE	
	222	I	X			MACH ENT VA	
	X > N	-3.843 MACH = 1.1022	DEPENDENT VARIABLE CP			189 MACH = 1.1028 DEPENDENT VARIABLE CP	
	000	W	PEN			. 189 DEPEN	
	88 660 660	3.0 .	8			ë. 8	
	1076.6800 IN. 30000 IN. 375.0000 IN.	'n				+	
		= (1)					
	ይይይ	-				BETA (2)	
×	XMRP YMRP ZMRP	BETA	œ			¥ &	
DAT	•	盎	TO THE	60	53		
NCE	0 Z Z	t	AP	.0·	6470	71 _AP	
REFERENCE DATA	8888	-4.047	ᅜ	9	សូលី	6. 5. E ₹	
, E	2690.0000 SQ.FT. 474.8000 IN. 936.0680 IN.	ì	380	1.0180 1.0460	7043	, 6	
	289 47	= -	-				
		-	S		PH: .00070436470 40.00053553963 ALPHA (;) = -3.971 BETA SECTION (1)PONY FLAP LOWER		
	SREF " LREF" " EREF " SCALE "	ALPHA (1) =	SECTION (1) BCOY FLAP LOWER	X/LB	£ 5	LPHA SECT	
	மைப்பம்	4		×		∢	

= 601.66 a = 1.1022 DEPENDENT VARIABLE CP 4.285 MACH ALPHA (1) = -3.999 BETA (3) = SECTION (1)800Y FLAP LOWER 0940": 08.6" -.6944 -.6733 -.5059 -.4080 1.0180 1.0460 .000 40.000 X/LB X/LB

PH1 .000 -.6965 -.6564 +0.000 -.5595 -.4700

ALPHA (2) = -.036 BETA (1) = -3.867 MACH = 1.1011 Q

SECTIC: (1)800Y FLAP LOWER DEPENDENT VARIABLE CP

X/EB 1.0180 1.0460

3.1906

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= 708.39

. 601.17

3.1893

FAZ

707.48

FHI .300 -.6548 -.6549 40.000 -.5316 -.3671

A town

	ATTACK DEFECTION DATE OF AMES 11-073-1	1-073-1			PAG	PAGE 5859
DATE 13 FEB /6		BT I OV CI VO GOO'S		(XE8G20)		
	AMES 11-073(0A148) -140A/8/C/R UNB BOD1 1 LM-	ל טאָפ פטטז יראר ראיי	l			3 1906
ALPHA (2) *059 BETA (2) =	.183 MACH = 1.1011	Q = 601.17	d.	708.39	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
SECTION (1)BODY FLAP LOWER	DEPENDENT VARIABLE CP					
X/L9 1.0180 1.0460			·			
РН1 . 000 6502 6678 40.000 4868 3901				. !		9001
ALPHA (2) =052 BETA (3) =	4.261 MACH = 1.1011	4 601.17	.	708.39	# JVN#	2.1300
SECTION (1) BODY FLAP LOWER	DEPENDENT VARIABLE CP					
X/LB 1.018C 1.046D						
PHI .00065936527 .000.04		•			520	3.1838
ALPHA (3) = 3.856 BETA (1) =	-3.869 MACH = 1.1013	g = 601.26		01.10		
SECTION (1) BODY FLAP LOWER	DEPENDENT VARIABLE CP					
X/LB 1.0180 1.0460~						
PH1 .00064346572 .000.04			i (2	3,1838
ALPHA (3) = 3.924 BETA (2) =	.189 MACH = 1.1013	· 0 • 601.25	- -	91.90		
SECTION (1)BODY FLAP LOWER	DEPENDENT VARIABLE CP					
X/LB 1.0180 1.0460						
PH1 . COD 6320 6470 . 40.020 4967 3784			•	200		3.1838
ALPHA (3) = 3.921 BETA (3) =	ż	601.25	1	61.60	1	
SECTION (1)BODY FLAP LOWER	DEPENDENT VARIABLE CP					
X/LB 1.0180 1.0450			-			
PHI . 05064006530 . 45.0004019						

ABULATED P)73(0A14E	1-073-1) R ORB BOD	Y FLAP LWR	a	(XE8G20)		PACE 5860 = 3.1857
ALPHA (4) = 7.863 BETA (1) = SECTION (1) BODY FLAP LOWER	-3.864 MACH = 1.1008 DEPENDENT VARIABLE CP	o o	= 600.53	a.	16.707	7 7	
X/LB 1.0180 1.0460 PHI60826243 +0.00052613805			·				
7.8 1.0800 F	.180 MACH = 1.100B DEPENDENT VARIABLE CP	o	= 600.53	a. .	. 707.91	RN/L	3.185
PH1 .CGC60656258 .C.CGO48963701 ALPHA (4) = 7.863 BETA (3) = SECTION (1) -CDY FLAP LOWER X/LB 1.0180 1.0460	4,247 MACH = 1,1008 DEPENDENT VARIABLE CP	O	• 600.53	a .	. 707.91	RN/L	# 3.1851
PHI .CCC61126308 +0.0CC48193776 ALPHA (5) = 11.903 BETA (1) = SECTION (1)BODY FLAP LOWER X/LB 1.0160 1.0460	-3.846 MACH = 1.1003 DEPENDENT VARIABLE CP	o	600.53	۵.	- 708.60	RN/L	• 3.1888
PHI .000	.188 MACH = 1.1003 DEPENDENT VARIABLE CP	•	600.53	a.	• 708.60	FN/1	3.188

3.1857

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3.1857

3.1857

DATE 13 FEB 76

TABULATED PRESSURE DATA - OAI48 (AMES 11-073-1)

AMES 11-073(0A148) -140//B/C/R ORB BODY FLAP LWR

= 600.53

ľ

= 708.60

(XE8620)

4.263 MACH = 1.1003

DEPENDENT VARIABLE CP ALPHA (5) * 11.905 BETA (3) *

SECTION (1) BODY FLAP LOWER 1.0180 1.0450

W/LB

-.5834 -.6080 -.5070 -.3447 PHI .030 40.000

0

3.1882 **3**8/4

PAGE 5861

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DATE 13 FEB 76	97	TABULATED	PRESSURE	DATA -	PRESSURE DATA - DAIWB (AMES 11-073-1	11-073-1	^					ã	PAGE 5862	ß
			AMES 11	-073(0A)	AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP LMR	/R ORB BI	ODY FILA	P LAR		Č	(XE8G21)	C 05 AUG	NUG 75	_
	REFERENCE DATA	4								PARAMETRIC		DATA		
SREF = 2690 LPEF = 474 BREF = 936 SCALE = 936	2690.0006 SO.FT. 474.6000 IN. 936.6680 IN.	XMRP # YMRP # ZMRP	.0000 375.0000	N. N				# LD IL	RUDDER = BOFLAP = R-ELVN =	.000 .000 .000		SPOBRK = L-ELVN = MACH =	• • •	000.
- 4	-4.037 BETA	[A C L) =	-3.849	MACH	90000	0	- 60	600.22	۵	* 100	1058.5	RN/L	m m	3.5693
SECTION ()	(1) BODY FLAP LOWER	œ	DEP	ENDENT	DEPENDENT VARIABLE CP									
X/LB 1	1.0180 1.0450													
1 1 0 0 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1	45792801 37422803								·					
ALPHA (1) =	-4.030 BETA	TA (2) =	. 192	MACH	00006∵ ≖	o	.	55.009	۵	100	1058.5	SNYL	ж ж	3.5593
SECTION ()	SECTION (1) BODY FLAP LOWER	œ	OEP	ENCENT	DEPENDENT VARIABLE CP									
X/LB 1	05+0'1 0810'1													
E 600 . 0+	47872921 33752439													
AL>HA (1) =	-4.042 BETA	TA (3) =	4.289	MACH	. 90000	o	9	600.22	۵	*	1058.5	FN/L	# #	3.5393
SECTION (1	SECTION (1) BODY FLAP LOWER	٥r	a 30	ENDENT	DEPENDENT VARIABLE CP									
X/:B 1	1.0190 1.0460													
1 000 THA	46382948 33172038													
ALPHA (2) =	. SZY BETA	TA (1) =	-3.875	MACH	89917	o	. 29	599.08	۵	*	1058.5	RN/L	mi H	3.5682
SECTION (1	13800Y FLAP LOWER	œ	0£P	ENDENT	DEPENDENT VARIABLE CP									
X/LB 1	1.0180 1.0460	٠												
PH1 .000 .48.000	477 6 2974 38 82 ?957													

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NATE 13 FEB 76 TABULATED P	TABULATED PRESSURE DATA - OA148 (AMES 11-073-1)	1-073-1					PAGE 5863	53
	AMES 11-073(04148) -140A/B/C/R ORB BODY FLAP LMR	R ORB BODY	FLAP LWR		(XE8621)	2		
ALPHA (2) = .031 BETA (2) =	.186 MACH = .89917	•	= 599.08	۵.	- 1058.5	RN/L	m M	3.5682
SECTION (1) BODY FLAP LOWER	DEPENDENT VARIABLE CP							
X/LB 1.018C 1.0460								
PH1 .00048112921 40.00034392290					!	i		t 66
ALPHA (2) = .021 BETA (3) =	4.265 MACH = .89917	•	599.08	Q	1058.5	KN/L) 8
SECTION (1)BODY FLAP LOWER	DEPENDENT VARIABLE CP							
X/LB 1.0180 1.0460								
PHI .00045972878 40.00032071962							ı	
ALPHA (3) = 3.922 BETA (1) =	-3.878 MACH = .89950	•	599.38	۵	• 1058.3	48	m •	3.5682
SECTION (1)BODY FLAP LOWER	DEPENDENT VARIABLE CP							
X/LB 1.0180 1.0460								
PH1 .00045952924 40.00037812615				,			l	
ALPHA (3) = 3.975 BETA (2) =	.188 MACH - 89950	" •	* 599.38	۵.	- 1058.3	F .	m m	3.5682
SECTION (1)BODY FLAP LOWER	DEPENDENT VARIABLE CP						•	
X/LB 1.0180 1.0460								
PH1 .000 - 14741 - 2819 40.030 - 3654 - 2164							•	
ALP4A (3) = 3.972 BETA (3) =	4.260 MACH = .89950	•	= 599.38	a	1058.3	7/88	MÌ M	3.3682
SECTION (1)BODY FLAP LOWER	DEPENDENT VARIABLE CP							
X/LB 1.0180 1.0460								
PH1 .00048332908 40.00034342073								

PAGE 5863

	(XEBG21)
TABULATED PRESSURE DATA - DAIMB (AMES 11-073-1)	AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP LUR

DATE 13 FEB 76

PAGE 5964

ALPHA (4) = 7.906 BETA (1)		.906	BETA	2	-3.870	MACH		-3.870 MACH = .89943 0		* 599.41 P	a .	1000 my 1000 m))	}
SECTION 1 1:300Y FLAP LOWER	1 300V	FLAP L	OWER		DEPEN	DEPENDENT VARIABLE CP	RIAB	E CP						
K/LB	1.0180	1.0180 1.0460	9											
PHI	0200 - 0320	200	g											

599.41 DEPENDENT VARIABLE CP MACH • @ BETA SECTION (1)BODY FLAP LOWER 1.0180 1.0450 -.4750 -.2939 -.3996 -.2359 ALPHA (4) = 8.017 40.000 40.000 X/LB

Z

1058.5

* 3.56g Z - 1058.5 599.41 4.257 MACH = .89943 DEPENDENT VARIABLE CP ALPHA (4) = 8.014 BETA (3) # SECTION (1)BODY FLAP LOWER 1.0180 1.0460 -.4634 -.2922 -.3615 -.2285 PH: .030 .030 al/x

= 1058.5 **=** 600.39 -3.861 MACH - .90017 DEPENDENT VARIABLE CP ALPHA (5) = 11.899 BETA (1) = SECTION (11800Y FLAP LOWER -.4851 -.3134 -.3331 -.2008 1.0180 1.0460 PHI .300 40.363

Z

• 1058.5 600.39 DEPENDENT VARIABLE CP . 190 MACH . ALP4A (5) # 11.956 BETA (2) # SECTION (1)BODY FLAP LOSER -.5441 -.3715 -.4523 -.2657 PH1 .000 46.630

1.5180 1.0450 X/1.9

-,5792 -,4500

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TABULATED PRESSURE DATA - DAIMB (AMES 11-073-1) DATE 13 FEB 76

ANES 11-073(0A148) -140A/B/C/R CRB BOOY FLAP LMR

4.274 MACH = .90017 DEPENDENT VARIABLE CP BETA (3) = ALPHA (5) = 11.948

SECTION (1) BODY FLAP LOWER 1.0180 1.0460 X/LB

-.5860 -.3907 -.3710 -.2309 PH1 .000 \$0.000

= 600.39

1058.5

(XEBG51)

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PAGE 5865

= 3.5727

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•	8
DATA	-073(
ATED PRESSURE DATA - OAIWB (AMES 11-073-1)	ANES 11-073(0A148) -140A/B/C/R ORS BODY FLAP LUR
ATED	

PARAMETRIC DATA	RUDDER000 SPDBR000 BDFLAP11.700 L-ELVN000 R-ELVN000 MACH500	P = 2385.5 RN/L = 4.8530				P = 2385.6 RN/L = 4.8530				P = 2385.6 RN/L = 4.8530				P = 2385.6 RN/L = 14.8530			
		= 594.79			·	* 554.79				= 594.79				= 594.79			•
		o				ø				•				ø			
	X0 X0 X0	масн ≈ .59680	DEPENDENT VARIABLE CP			МАСН ≈ .59680	DEPENDENT VARIABLE CP			MACH ≈ .59£80	DEPENDENT VARIABLE CP			масн = .59680	DEPENDENT VARIABLE CP		·
: :	1076.6800 IN. XO .0000 IN. YO 375.0000 IN. ZO	-7.856	DEPENDEN			= -3.8 43	CEPENDE			. 189	DEPENDE			11.2.4	DEPENDE		
REFERENCE DATA	SPEF = 2690.0000 SO.FT. XMRP = LREF = 474.8000 IN. YMRP = 55.0500 IN. ZMRP = 55.05 IN. ZMRP	(1) * -4.045 BETA (1)	SECTION (1) BODY FLAP LONER	X/LB 1.0180 1.0460	PH: .00034512411 40.00031012812	ALPHA (1) = -3.970 BETA (2)	SECTION (1) BODY FLAP LOWER	X/LB 1.0180 1.0450	PHI .coc3%092327 40.coo26*92176	ALPHA (1) = -3.957 BETA (3)	SECTION (1)BODY FLAP LCHER	X/LB 1.0180 1.0460	РН1 .0003:552265 40.00026471938	ALPHA (1) = -3.985 BETA (4)	SECTION 1 17800Y FLAP LOWER	X/LB 1.0;80 1.0460	PHI .00034592295 40.00025081677

73-1) PACE 5867	18 BODY FLAP LIAR (XEBGR22)	= 594.79 P = 2385.6 RN/L = 4.8530				* 594.66 P * 2365.3 f8v/L * ½.8568				= 594.66 P = 2385.3 fN/L = 4.8558				= 594.66 P = 2385.3 RN/L = 4.8558				* 594.66 P * 2385.3 5N/L * 4.8568			
PRESSURE DATA - DAINB (AMES 11-073-1)	AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP LIAR	8.350 MACH = .59680 0	DEPENDENT VARIABLE CP			-7.896 MACH = .59578 Q	DEPENDENT VARIABLE CP		·	-3.863 MACH59678 Q	DEPENDENT VARIABLE CP			.189 MACH = .59678 C	DEPENDENT VARIABLE CP			4.250 MACH = .59678 0	DEPENDENT VARIABLE CP		
DATE 13 FEB 76 TABULATED		ALPHA (1) 4 -4.005 BETA (5) =	SECTION (1)BODY FLAP LOWER	X/LB 1.0180 1.0450	PHI . 0003+1+E 000. 00.0002338	ALPHA (2) =025 BETA (1) =	SECTION (1)BODY FLAP LCKER	X:LB 1.0160 1.0460	PHI .00035192416 40.00029662554	ALPHA (2) =014 BETA (2) =	SECTION (1)BODY FLAP LOWER	X/L8 1.0.80 1.0460	PH1 .00034222253 40.00325072078	ALPHA (2) = .070 BETA (3) =	SECTION (1)BODY FLAP LOWER	X/LB 1.0180 1.0466	PHI .000345;224 40.00025701787	ALPHA (2) = .053 BETA (4) =	SECTION (1)BODY FLAP LOWER	X/L3 1.0180 1.0459	PHI .30035332313

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CATE 3 FEB 76									
10 10 10 10 10 10 10 10	13 FEB 76		(AMES 11	1-073-1	•				PAGE 58
10 10 10 10 10 10 10 10		AMES 11-073(0A148) -1	140A/9/C/F	2 ORB BC	DY FLAP I	H.	(XEBG2	Ç.	
10.0180 1.0460 10.0180 1.0460	(2) ≈ .058	= 8.310 MACH =	.59678	a				1/86	
1.018C 1.0460	SECTION : 11800Y FLAP LOWER	DEPENDENT VARIABL	LE CP						
10 - 346 - 1238 10 1 10 10 1 10 1 1 1	1.0180								
1.0180 1.0460 FLAP LOWER DEPENDENT VARIABLE CP 1.0180 1.0460 DEPENDENT VARIABLE CP DEP	- 5461 - 2294								
1.0130 1.0460 1	3) = 3.933	* -7.911 MACH *	.59760	ø	. 596.		= 2385.0	1/NE	
1.0130 1.0460 00035632357 00035632357 1.0130 1.0460 00035192253 00035192253 00035192253 00035192253 00035192253 00035192253 00035192253 000351925702022 1.0180 1.0460 00034932179 00034932179 00034932179 00034932179 00034932179 00034932179 00034932179 00025781749 00025781749 00025781749 00025781749 00025781749 00025781749 00025781749 00025781749 00025781749 00025781749 00025781749 00025781749 00025781749 00025781749	SECTION (1) BODY FLAP LOWER	DEPENCENT VARIABL	ر د ده						
00035632357 00035632357 00035632357 1.0180 1.0460 00035632365	1.0180								
1.0:30 1.0460 1.0:30 1.0460 1.0:30 1.0460 1.0:30 1.0460 2.35192523 2.0035192223 2.003519 1.0460 2.35192523 2.003519 1.0460 2.352925702022 2.003519 1.0460 2.0034692187 2.0034692187 2.0034692187 2.0034692187 2.0034692588 EETA (4) = 4.240 MACH = .59760 0 = 596.20 P = 2385.0 RN/L = 10.0180 1.0460 2.346925781749 2.0034672588 EETA (4) = 4.240 MACH = .59760 0 = 596.20 P = 2385.0 RN/L = 10.0180 1.0460 2.346925892187 2.00346725892589	3553								
1.0180 1.0460 1.0460 1.0460 1.0180 1.0460 1.0180 1.0460 1.0180 1.0460 1.0180 1	3) = 3.936	2) = -3.365 MACH =	.59760	ø				1/2	
1.0193 1.0460 50325732553 50325702022 1.0190 1.0460 60324932197 6042578 -1179 60525781179 60625781179 60725781179 60825781179 60925781179 60925781179 60025781179 60025781179 60025781179 60025781179 60025781179 60025781179 60025781179 60025781179 60025781179 60025781179 60025781179 60025781179 60025781179 60025781179	SECTION (1) BODY FLAP LOWER	DEPENDENT VARIABL	E CP						
5032553 5162553 5172553 5182553 5182553 5192553 5192553 5192553 51025702505 51025702570 51025702570 51025702570 51025702570 51025702570 51025702570 51025702570 51025702570 51025702570 51025702550 51025502550 51025502550 51025502550 51025502550	1.0:80								
FIGURE 11800Y FLAP LC:4ER DEPENDENT VARIABLE CP = 596.20 P = 2385.0 FN/L = 11.0180 1.0460 1.0180 1.0460 - 2578 - 1749 1.0180 1.0460 - 3497 - 22554 1.0180 1.0460 - 3497 - 22554 1.0180 1.0460 - 3497 - 22554 1.0180 1.0460 - 3497 - 22554	3519 2570								
1.0180DY FLAP LCHER 1.0180D 1.0460 000334692187 000025781749 010034972254 010034972254	3) = 3.935	= .172 MACH =	.59750	o				RN/L	
1.0180 1.0460 00325781749 00025781749 1.0180 1.34672578 00034972254		DEPENDENT VARIABL	E CP						
00025781749 00025781749 1.0180 1.34892187	1.0180								
1.0180 1.3497 2254 1.0180 245 1.0180 2457 2554	3+69 2578								
110N (1180DY FLAP LCMER 1.0180 1.0460 00034972254	31 = 4.025	= 4.240 MACH =	.59760	c			• 2385.B	I/KE	ż n
1.0180	SECTION (1180DY FLAP LCHER	CEPENDENT VARIABL	E CP						
7.3497	1.0183								
	- 3497								

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DATE 13 FEB	76 1ABULATED		E DATA -	PRESSURE DATA - DAI46 (AMES 11-073-1)	1-073-1	_					2	PAGE 5869	8
		AMES 1	1-073(0A	AMES 11-073(04148) -1404/B/C/R ORB BODY FLAP LMR	R ORB BC	DY FLA	P LWR		(XE	(XE8622)			
ALPHA (3)	± 4.030 BETA (5) ±	8.292	IZ MACH	1 = .59760	ø	# 59	596.20	۵	= 2385.0		RN/L		4.8630
SECTION (1 BODY FLAP LOWER	DE	PENDENT	DEPENDENT VARIABLE CP									
X/LB	1.0180 1.0460												
PH1 .000 40.000	34412249 21741440												
ALPHA (4)	= 7.901 BETA (1) =	-7.896	6 MACH	4 = .59758	a	* 59	596.20	۵	= 2385.1		RBV.L	# #	4.9692
SECTION (SECTION (1)BODY FLAP LOWER	OE	PENDENT	DEPENDENT VARIABLE CF									
X/LB	1.0180 1.0450												
PH1 .000 40.000	25222351 26712093												
ALPHA (4)	= 7.913 BETA (2) =	-3.861	31 MACH	1 = .59758	ø	59	596.20	Q .	= 2385.1		RN/L	# #	4.8692
SECTION (SECTION (1)BODY FLAP LOWER	ÖE	PENDENT	DEPENDENT VARIABLE CP									
X/LB	1.0183 1.0460												
PH1 .000 40.000	33992142 24521827												
ALPHA (4)	= 8.049 BETA (3) =	.175	75 MACH	85758 - H	ø	# 50	596.20	۵	= 2385.1		FN/L	# #	4.8692
SECTION (SECTION (1) BODY FLAP LONER	9	PENDENT	DEPENDENT VARIABLE CP									
X/LB	1.0180 1.0460												
PH1 .000 40.000	35092165 25781677												
ALPHA (4)	# 8.049 BETA (4) #	4.238	SB MACH	4 - .59758	o	₽	596.20	Q.	2385.		FR/L	; ;	4.8692
SECTION (SECTION (1) BODY FLAP LOWER	더	PENDENT	DEPENDENT VARIABLE CP									
X/LB	1.0180 1.0460												
PHI .000 .0053	3+652185 23471+95						•						

त्या के त्यानुस्थान के किन्द्री पात्रकृष्ट पत्र केर्यन हैं। जाने के जाने के किन्द्री किन्द्री के किन्द्री किन्द्री के किन्द्री किन्द्री किन्द्री किन्द्री के किन्द्री
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DATE 13 FEB 76 TABULATED PRESSURE DATA - OA148 (AMES 11-073-1)	-073-1	•				PAGE 5870	
AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP LWR	ORB BO	DY FLAP LWR		(XE8622)	5		
ALPHA (4) = 8.046 BETA (5) = 8.297 MACH = .59758	0	• 596.20	ο.	- 2385.1	RN/L	- 4.8692	
SECTION (1) BODY FLAP LOWER DEPENDENT VARIABLE CP							
X/LB 1.0180 1.0460							
PHI .00034742294 40.00020361356							
ALPHA (5) = 11.963 BETA (1) = -7.860 MACH = .59774	ø	≈ 596.43	۵	2384.9	RN/L	# 4.873¢	
SECTION (1) BODY FLAP LOWER DEPENDENT VARIABLE CP							
X/LB 1.0180 :.0450							
PH1 .00034522193 .40.0002+811911							
ALPHA (5) = 11.985 BETA (2) = -3.840 MACH = .59774	ø	= 596.43	۵	= 2384.9	1 1 1 1 1 1 1 1 1 1	* 4.8734	
SECTION (1) BODY FLAP LOWER JEPENDENT VARIABLE CP							
x/tB 1.0180 1.0460							
PHI .50032542047 .40.30023761567							
ALPHA (5) = 12.000 BETA (3) = .181 MACH = .59774	o	≈ 596.43	۵	= 2384.9	RN/L	#.873# #	_
SECTION (1)500Y FLAP LOWER DEPENDENT VARIABLE CP							
X/LB 1.0180 1.0460							
.00033832112 .0002363:442							
ALPHA (5) = 12.027 BETA (4) = 4.252 MACH = .59774	o	≈ 596.43	۵	- 2384.3	RAZ	# 4.873	_
SECTION (1) BODY FLAP LOWER DEPENDENT VARIABLE CP							
X/LB 1.0180 1.0%0							
PH1 .00034032119 .00021831349		•					

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■ 4.8734 PAGE 587! ž (XE8622) 2384.9 AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP LWR TABULATED PRESSURE DATA - DAIHB (AMES 11-073-1) DEPENDENT VARIABLE CP MACH 8. 72 BETA (5) SECTION (1) BODY FLAP LOKER -.2116 -.1229 1.0180 1.0460 ALPHA (5) = 12.070 -.3359 DATE 13 FEB 75 PH1 .000 .40.000

X/LB

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(XE8623) (05 AUG 75) AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP LMR

REFERENCE DATA				PARAMETRIC DATA	: DATA		
SREF = 2690.0000 SO.FT. XMRP = 1076.6800 LREF = 474.8000 IN. YMRP = .0000 BREF = 936.0680 IN. ZMRP = 375.0000 SCALE = .0300	6800 IN. XO 0000 IN. YO 0000 IN. ZO	·	RUDDER = BOFLAP = R-ELVN =	000.	SPDBRK L-ELVN		
ALPHA (1) = -3.999 BETA (1) = -3.	-3.856 MACH = 1.3924	0 * 598.36	 <u>C</u>	- 440.89	RN/L	- 2.9021	
SECTION (1)BODY FLAP LOWER	DEPENDENT VARIABLE CP						
X/LB 1.0180 1.0460							
PHI .00026402633 40.00029002559			, 				
ALPHA (1) = -3.926 BETA (2) =	.190 MACH = 1.3924	0 = 598.36	Q.	440.89	RA'L	= 2.9021	
SECTION (1)BODY FLAP LOWER	DEPENDENT VARIABLE CP						
X/LB 1.0180 1.0460					÷		
PHI .00025872676 40.00026572396							
ALPHA (1) = -3.985 BETA (3) = 4.6	4.279 MACH = 1.3924	0 = 598.36	۵.	* 440.89	FN/L	2.9021	
SECTION (1)BODY FLAP LOWER	DEPENDENT VARIABLE CP						
X/LB 1.0180 1.0450							
PHI .00025102639 40.00025582342							
ALPHA (2) = .006 BETA (1) = -3.8	3.877; MACH = 1.3947 0	3 = 599.32	۵.	- 440.18·	RN/L	- 2.9065	
SECTION (1)BODY FLAP LOWER D	DEPENDENT VARIABLE CP						
X/L6 1.0180 1.0460							
PH) .00020672069 .00023452069							

DATE 13 FEB 76 TABULATED PRESSURE	PRESSURE DATA - DAINB (AMES 11-073-1)	1-073-1			•	a.	PAGE 5873
AMES 11	AMES 11-073(04148) -1404/B/C/R ORB BODY FLAP LMR	R ORB BODY FLAP	LMR	X	(XE8623)		
ALPHA (2) = .011 BETA (2) = .183	3 MACH # 1.3947	0 = 599.32	٠ م	= t+0.18	81.	RN/L	- 2.9066
SECTION (1) BODY FLAP LOKER DEP	DEPENDENT VARIABLE CP						
X/LB 1.0180 1.0460							
PH1 .00019972121 40.00022812083							
ALPHA (2) = .023 BETA (3) = 4.256	5 MACH = 1.3947	0 = 599	599.32 P	- 440.18	82.	ZX.	- 2.9056
SECTION (1:BODY FLAP LOWER DEP	DEPENDENT VARIABLE CP	•					
X/LB 1.0180 1.0460							
PHI .00019942096 ት0.60020962ኒት2							
ALPHA (3) = 3.926 BETA (1) = -3.879	9 MACH * 1.3946	0 = 599	599.62 P	54.044 =	3.	FR/L	= 2.9033
SECTION (1)BODY FLAP LOWER DEP	DEPENDENT VARIABLE CP						
X/Le 1.0180 1.0460							
PHI .C0015061563 +0.66016801501				·			
ALPHA (3) = 3.958 BETA (2) = .183	3 MACH = 1.3946	0 = 599	599.62 P	54.044 -	54.	RY	= 2.9033
SECTION (1) BODY FLAP LOWER DEP	DEPENDENT VARIABLE CP						
X/LB 1.0180 1.0460							
PH1 .000150115 3 2 40.00016341662					**		
ALPHA (3) = 3.971 BETA (3) = 4.247	7 MACH = 1.3946	0 - 599	599.62 P	= 440.45	٠ <u>.</u>	PN/L	- 2.9033
SECTION (1) BODY FLAP LOWER DEP	DEPENDENT VARIABLE CP		No.				
X/LB 1.0180 1.0%G							
PH1 .00014981607 .00016291793							

DATE 13 FEB 76 TABULATED	TABULATED PRESSURE DATA - DAIY8 (AMES 11-073-1)	11-073-1)			2	PAGE 5874
	AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP LMR	/R ORB BODY FLAP LH	Œ	(XE8623)		
ALPHA (4) = 7.933 BETA (1) =	= -3.869 MACH = 1.3941	0 = 599.51	Q .	- 440.65	RN/L	= 2.9093
SECTION (1) BODY FLAP LOWER	DEPENDENT VARIABLE CP					
X/LB 1.0180 1.0460				,		
PHI .00010121143 .00010301259						
ALPHA (4) = 7.908 BETA (2) =	= .178 MACH = 1.3941	0 = 599.51	۵	- 440.65	RN/L	- 2.9093
SECTION (1) BODY FLAP LOWER	DEPENDENT VARIABLE CP					
X/LB 1.0180 1.0460						
PHI .03009381097 40.00012021402	·					
ALPHA (4) = 7.872 BETA (3) =	= 4.245 MACH = 1.3941	0 - 599.51	۵.	= 440.65	PN/L	= 2.9093
SECTION (1)BODY FLAP LOWER	DEPENDENT VARIABLE CP					
X/LB 1.0180 1.0+60						
PHI .00010471109 40.00013201542						
ALPHA (5) = 11.931 BETA (1) =	= -3.857 MACH = 1.3942	26.99.92	a	* 440.89	FBV/L	- 2.9149
SECTION (1)BODY FLAP LOWER	DEPENDENT VARIABLE CP					
X/LB 1.0180 1.0450						
PHI .0000520000.04 9151:- +560:- 000.04						
ALPHA (5) = 11.869 BETA (2) =	. 183 HACH = 1.3942	0 = 599.92	۵	e8.044 =	RN/L	- 2.9149
SECTION (1)BODY FLAP LOWER	DEPENDENT VARIABLE CP					
X/LB 1.0180 1.0460			1			
. 000 0483 0714 - 000 0883 0300						

DATE 13 FEB 76 TABULATED PRESSU	PRESSURE DATA - DAI48 (AMES 11-073-1)	11-073-1	_				!	b A	PAGE 5875	K
ANES	ANES 11-073(0A148) -140A/B/C/R ORB BODY FLAP LMR	C/R ORB B(<u>~</u> ≻	LAP LIAR		(XEBG23)	3231			
ALPHA (5) = 11.865 BETA (3) = 4.2	4.258 MACH = 1.3942	o		599.92	•	- 440.89	BN/L		<u>د</u> •	2.9149
SECTION (1) BODY FLAP LOWER DE	DEPENDENT VARIABLE CP									
X/LB 1:0180 1.0460										
PH1 .00005680787 40.00010291243										
ALPHA (6) = 15.857 BETA (1) = -3.836	36 MACH = 1.3942	o		599.51	•	- 440.65	S RN/L		<u>رن</u> •	5.9096
SECTION (1)BODY FLAP LOWER DE	DEPENDENT VARIABLE CP									
X/LB 1.0183 1.0463										
FH1 .00000520262 40.00005541151										
ALPHA (6) = 15.871 BETA (2) = .16	.184 NACH = 1.3942	ø	•	599.51	۵.	a 440.65	5 RN/L		<u>رن</u> ۳	2.9096
SECTION (1) BODY FLAP LOWER DS	DEPENDENT VARIABLE CP									
X/LB 1.0180 1.0460										
PH1 .500000+0275 +0.00005890974										
ALPHA (6) = 15.861 BETA (3) = 4.28	4.289 MACH = 1.3942	ø	•	599.51	۵	* 440.65	5 RN/L			2.9096
SECTION (1) BODY FLAP LOWER DE	DEPENDENT VARIABLE CP									
X/L9 1.0180 1.0460										
FH1 .500 .00100221 40.00305230864										

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TED PRESSURE DATA - OAIH8 (AMES 11-073-1)	AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP:LMR (XEBG24) (05 AUG 75)	PARAMETRIC DATA	= 1076.6800 IN. XO RUDDER = .000 SPDBRX = .000 = .0000 IN. YO BOFLAP = .000 L-ELVN = .000 = 375.0000 IN. ZO R-ELVN = .000 MACH = 1.250) = -3.844 MACH = 1.2469 Q = 599.78 P = 551.11 RN/L = 3.0086	DEPENDENT VARIABLE CP) = .190 MACH = 1.2469 Q = 599.78 P = 551.11 RN/L = 3.0086	DEPENDENT VARIABLE CP) = 4.277 MACH = 1.2469 0 = 599.78 P = 551.11 RN/L = 3.0086	DEPENDENT VARIABLE CP) = -3.875 MACH = 1.2468 Q = 599.96 P = 551.34 RN/L = 3.0225	DEPENDENT VARIABLE CP		*
DATE 13 FEB 76 TABULATED PRESSURE DATA - 0A148 (AMES 11-073-1		REFERENCE DATA	1076.6800 IN. .0000 IN. 375.0000 IN.	MACH * 1.2469	SECTION (1) BODY FLAP LONER DEPENDENT VARIABLE CP	X/LB 1.0180 1.0460	PHI .00032553236 .000033882746	MACH = 1.2469	SECTION (1:800Y FLAP LOWER DEPENDENT VARIABLE CP	X/LB 1.0180 1.0460	PH1 .00033023352 +0.00032542646	= 1.2469	SECTION (1)BODY FLAP LOWER DEPENDENT VARIABLE CP	X/LB 1.018G 1.0460	PH1 .3C032483196 42.5C031132735	MACH = 1.2468	SECTION (1)BODY FLAP LOWER DEPENDENT VARIABLE CP	X/LB 1.0180 1.0460	1#2

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DATE 13 FEB 76 TABULATED P	PRESSURE DATA - OAIYB (AMES 11-073-1)	1-013-1					a.	PAGE 5877	E
	AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP LUR	R ORB BOD	Y FLAP LIFR		ย	(XE8624)			
ALPHA (2) = .042 BETA (2) =	.180 MACH = 1.2468	· σ	* 599.96	۵	. 55	551.34	RN/L	m m	3.0225
SECTION (1)BODY FLAP LCWER	DEPENDENT VARIABLE CP								
X/LB 1.0180 1.0460									
PHI .00025702696 40.00027502309	•								
ALPHA (2) = .044 BETA (3) =	4.251 MACH = 1.2468	Ö	s 599.96	۵.	# 8	551.32	1/8	m m	3.0225
SECTION (1)BODY FLAP LOWER	DEPENDENT VARIABLE CP								
X/LB 1.0180 1.0460									
PHI .00026302649 .40.00026442416									
ALPHA (3) = 3.504 BETA (1) =	-3.872 MACH = 1.2475	ø	= 600.37	۵	S	551.11	RN/L	m m	3.0117
SECTION 1 13BODY FLAP LOWER	DEPENDENT VARIABLE CP								
X/LB 1.0180 1.0460									
PHI .00020702153 40.00019871752									
ALPHA (3) = 3.905 BETA (2) =	.182 MACH = 1.2475	a	• 600.37	ο.	B	551.11	RN/L	mi	3.0117
SECTION (1)BODY FLAP LOWER	DEPENDENT VARIABLE CP								
X/LB 1.0180 1.0460									
PM1 .00020292143 .00.0021521974									
ALPHA (3) = 3.915 BETA (3) =	4.245 MACH * 1.2475	•	600.37	۵	* 55	551.11	RN/L	m M	3.0117
SECTION (1:800Y FLAP LOWER	DEPENDENT VARIABLE CP								
X/LB 1.0180 1.0460			3						
PHI .00020%92158 %0.0002115.									

DATE 13 FEB 76 TABULATED I	TABULATED PRESSURE DATA - OAI48 (AMES 11-073-1)	3-1)		PACE 5878
	AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP LMR	B BODY FLAP LIAR	(XE8624)	
ALPHA (4) = 7.877 BETA (1) =	-3.867 MACH = 1.2474 Q	■ 600.25 P	551.11	RN/L = 3.0132
SECTION (1) BODY FLAP LOWER	DEPENDENT VARIABLE CP			
X/LB 1.0180 1.0460				
PH1 .00016231778 40.00015991626				
ALPHA (4) = 7.882 BETA (2) =	.178 MACH = 1.2474 0	■ 600.25 P	551.11	RN/L = 3.0132
SECTION (1) BODY FLAP LOWER	DEPENDENT VARIABLE CP			
X/LB 1.0180 1.0460				
PH1 .000:6031776 +0.00015861817				
ALPHA (4) = 7.882 BETA (3) =	4.244 MACH = 1.2474 0	■ 600.25 P	- 551.11	RN/L = 3.0132
SECTION (1)BODY FLAP LOWER	DEPENDENT VARIABLE CP			
X/LB 1.0180 1.º 30				
PH1 .00015681751 40.00618271995				
ALPHA (5) = 11.916 BETA (1) =	-3.850 MACH = 1.2463 0	■ 600.28 P	= 552.05	RN/L * 3.0150
SECTION (1) BODY FLAP LOWER	DEPENDENT VARIABLE CP			
X/LB 1.0180 1.0460				
PH1 .C0012561437 40.00014041613				
ALPHA (5) = 11.928 BETA (2) =	.186 MACH = 1.2463 Q	■ 600.28 P	• 552.05	BN/L = 3.0150
SECTION (1)BODY FLAP LOWER	DEPENDENT VARIABLE CP			
015 TOTAN TOTAN				
2650 - 3651 - COC C.				

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TABULATED PRESSURE DATA - 0A148 (AMES 11-073-1) DATE 13 FEB 76

AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP LUR

s 600.28 0 4.256 MACH = 1.2463 BETA (3) * ALPHA (5) = 11.922

3.0150

RN/L

(XE8624) 552.05

PAGE 5879

DEPENDENT VARIABLE CP SECTION (1) BODY FLAP LOWER

1.0180 1.0460 X/LB

-. 1494 -. 1907 -.1185 PH1 .000 .40.000

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DATE 13 FEB 76 TABULATED PRESSURE DATA - DAI48 (AMES 11-073-1				Ω.	PAGE 5880	_
AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP LMR	DDY FLAP LWR		(XEBG25)	S) 1 DS AUG	NUC 75	^
REFERENCE DATA		_	PARAMETRIC DATA	DATA		
SREF = 2699.0000 SQ.FT. XMRP = 1076.6800 IN. XO LREF = 474.8000 IN. YMRP = .0000 IN. YO BREF = 936.0680 IN. ZMRP = 375.0000 IN. ZO SCALE = .0300		RUDDER BDFLAP R-ELVN	0000	SPOBRK L-ELVN MACH		888
ALPHA (1) = -3.988 BETA (1) = -3.842 MACH = 1.0978 0	= 500.10	۵.	= 711.43	FOX.7	3.188 1	8
SECTION (1)BODY FLAP LOWER DEPENDENT VARIABLE CP						
X/LB 1.0180 1.0460						
PHI .00042113317 40.C0029972918						
ALPHA (1) = -3.982 BETA (2) = .191 MACH = 1.0978 0	- 600.10	Q.	- 711.43	FBN/L	- 3.1861	æ
SECTION (1)BODY FLAP LOWER DEPENDENT VARIABLE CP						
X/LB 1.0180 1.0¥50						
PHI .00039543695 .00030452566						
ALPHA (1) = -3.987 BETA (3) = 4.273 MACH = 1.0978 0	= 600.10	e .	- 711.43	FRV/L	* 3.1861	Ŕ
SECTION (1)BODY FLAP LOWER DEPENDENT VARIABLE CP						
X/L8 1.0180 1.0460						
PHi .00039253137 40.00035953042						
ALPHA (2) = .056 BETA (1) = -3.867 MACH = 1.0980 0	s 599.15	۵.	7:0.01	1/18	= 3,1813	313
SECTION (!) BCDY FLAP LOWER DEPENDENT VARIABLE CP						
X/LB :.0180 1.0460						
PH1 .00035472884 40.00025202245						

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DATE 13 FEB 76 TABULATEC	:D PRESSI	URE DATA	- 0A	TABULATED PRESSURE DATA - OAIWB (AMES 11-073-1)	1-073-1	~					u .	PAGE	388
	AMES	11-073	OA 148)	AMES 11-073104148) -1404/8/C/R ORB BODY FLAP LNR	'R ORB B	ODY FLA	P LER			(XEBG25)			
ALPHA (2) = .058 BETA (2) =		.181 M	MACH	0380	ø	± 59	599.15	<u>a</u>		10.017	T/NE	•	3.11813
SECTION (1)BODY FLAP LOWER	_	DEPENDEN	IT VAR	DEPENDENT VARIABLE CP									
X7LB 1.0180 1.0460													
PH1 .00034573094 40.00024242424									ı				
ALPHA (2) = .056 BETA (3) =	± 1	4.249 M	MACH .	= 1.0980	o	50	599.15	۵.	7 =	10.017	PBK/L		3.1B13
SECTION (11800Y FLAP LCKER		JEPENDEN	IT VARI	DEPENDENT VARIABLE CP									•
X/LB 1.0180 1.0460													
PHI .00033792759 40.00030782655													
ALPHA (3) = 3.948 BETA (11) =	-3.6	-3.871 MA	MACH	= 1.0978	ø	50	599.38	a .		710.48	Z.		3.1840
SECTION 1 13BODY FLAP LCHER	Ī	DEPENDEN	IT VARI	DEPENDENT VARIABLE CP									
X/LB 1.0180 1.0450													
PHI .00032152759 90.00024732232													
ALPHA (3) = 3.949 BETA (2) =	•	.177 MACH		= 1.0978	o	* 59	599.38	Q .	7	710.48	7		3.1840
SECTION ('1) BODY FLAP LOWER	Ū	SEPENDEN	IT VARI	DEPENDENT VARIABLE CP							•		
X/LB 1.0180 1.0460													
PH1 .00030582695 .000.00024122186													
ALPHA (3) = 3.950 BETA (3) =	# .0.	4.239 MACH		8760.1	0	* 59¢	599.38	۵.		710.48	FEV.		3.1840
SECTION (1)BODY FLAP LOWER		EPENDEN	T VARI	DEPENDENT VARIABLE CP									
X/LB 1.0180 1.0460													
941 .00031492592 9.000.04													

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DATE 13 FEB 76 TABL	TABULATED F	PRESSURE DATA - DAI48 (AMES 11-073-1)	(AMES 1)	1-073-1	•					Δ.	PACE 5882	
		AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP LMR	140A/B/C/F	R ORB BC	OY FLA	857		S	(XE8525)			
ALFHA (4) * 7.932 BETA (-3.857 MACH =	1.0986	ø	# 55	599.84	۵	- 715	710.01	X	3.1812	u
SECTION (1)BODY FLAP LOWER		DEPENDENT VARIABLE CP	E CP									
X/LB 1.0180 1.0460												
PH1 .00027242503 .40.60022732090	•											
ALPHA (4) = 7.938 BETA ((2)	.185 MACH =	1.0985	ø	59	599.84	a .	117	710.01	1	3.1812	Δi
SECTION (1) BODY FLAP LOWER		DEPENDENT VARIABLE CP	E CP									
X/LB 1.0180 1.0460												
PH1 .00025922449 .000.00021572062												
ALPHA (4) = 7.937 BETA ((3) =	4.238 MACH *	1.0986	o	* 59	599.84	Ω.	# 71	710.01	1/82	3.1812	Ū
SECTION (1) BOOY FLAP LOWER		DEPENDENT VARIABLE CP	E CP									
X/LB 1.0180 1.0460												
PHI .: 200 - 2736 - 2474 .: 000.04												
ALPHA (5) = 11.970 BETA (* (1.)	-3.845 MACH =	1.0981	0	. 59	599.46	a.		719.03	Z.	3.1817	C
SECTION (1) BODY FLAP LOWER		DEPENDENT VARIABLE CP	E CP									
X/LB 1.0180 1.0460												
PH1 .30021552059 90.00017881908												
ALP4A (5) = 11.981 BETA ((S) =	. 187 MACH =	1.0981	•	# 53	599.45	۵	<u>-</u>	73.6.38	Z.	± 3.1817	1.
SECTION (1150DY FLAP LOWER		DEPENDENT VARIABLE CP	E CP									
094011 088011 8778												
## 17(5) - 300 C. 17(6) - 300 C. 17(6) - 300 C.												

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DATE 13 FEB 76	EB 76		TABULATED	_	SSURE	JATA -	0A146	PRESSURE DATA - DAIWB (AMES 11-073-1	1-073-1	_						PAGE	PAGE 5884	•
				Ą	AMES 11-073(0A148)	373(DA)		-140A/8/C/R ORB BODY FLAP LHR	'R ORB E	DOOY F	LAP LHR			(XEBG2B)		OS AUG	75	~
	REFE	REFERENCE DATA	<										PAR	PARAMETRIC DATA	DATA			
6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2690.0000 474.8000 936.0680	SO.FT.	XMRP = ZMRP =	375 375	.0000 .0000 375.0000	N. N	• •				t wit	RUDDER = BOFLAP = R-ELVN =		0000	SPOBRK L-ELVN MACH		000.	888
ALPHA (1)		-3.986 BE1	BETA (1)	1	-3.845	MACH		0+668.	0	*	599.79	۵		1059.2	RN/L		3.5659	329
SECTION	(13B0DY	SECTION (1)BODY FLAP LOWER	œ		DEPE	DEPENDENT VARIABLE	/AR I AB	RE CP										
X/LB	1.0180	1.0460																
PHI . 608 40.00	0769	1466																
ALPHA (1)	11	3.977 BETA	TA (2)	Ħ	. 190	MACH		0+668.	0		599.79	۵		1059.2	PN/L	Ħ	3.5659	929
SECTION ((1)BODY	SECTION (1)BODY FLAP LOWER	۵۲		DEPE	DEPENDENT VARIABLE CP	/ARIAB	תב כף										
X/L3	1.0180	1.0463																
PH1 .000 40.000	0750	1469											1					
ALPHA (1)	Ð	-3.985 BETA	TA (3)		4.276	MACH		0+668.	ø	*	599.79	a.		1059.2	RN/L		3,5659	92
SECTION ((1)B00Y	SECTION (1) BODY FLAP LOWER	œ		13430	DEPENDENT VARIABLE	ARIAB	LE CP										
X/:B	1.0180	1.0460														•		
PH1 . 000 40.000	0770-	1475																
ALPHA (2)		.OE: BETA	TA (1)	11	-3.869	MACH		.89877	0	•	599.18	۵.		1059.7	RN/L		3.5551	ស្ត
SECTION (1 1 BODY	SECTION (1)BODY FLAP LOWER	α		DEPE	DEPENDENT VARIABLE CP	ARIAB	LE CP										
X/LB	1.0180	1.0460																
PH1 030.	0803	1501 1559																

DATE 13 FEB 76 TABULATED PRESSURE DAT	PRESSURE DATA - DAIWB (AMES 11-073-1)	1-073-1	_					PAGE 5885	ıΩ
AMES 11-073	ANES 11-073(0A148) -140A/B/C/R ORB 60DY FLAP LMR	R ORB EO	DY FL	P LMR		(XE8626)	•		
ALPHA (2) = .067 BETA (2) = .174 M	MACH . 89877	a	# 56	599.18	a .	- 1059.7	RN/L	. w	3.5651
SECTION (1) BODY FLAP LOWER DEPENDE	DEPENDENT VARIABLE CP								
X/LB 1.0180 1.0460									
PHI .00006771392 40.00011121352							•		
ALPHA (2) = .063 BETA (3) = 4.252 M	MACH ≈ .89877	o	# 56	599.18	۵	= 1059.7	RN/L	# W.E	3.5651
SECTION (1) BODY FLAP LOWER DEPENDE	DEPENDENT VARIABLE CP								
X/LB 1.0180 1.0460									
PHI .00007541422 +0.00002731441									
ALPHA (3) = 3.954 BETA (1) = -3.877 M	MACH = .89787	a	56	598.42	a.	1050.5	FN/	# W.	3.5652
SECTION (1) BODY FLAP LOWER DEPENDE	DEPENDENT VARIABLE CP								
X/LB 1.0180 1.0460									
PHI .C0006511382 40.00013971454									
ALPHA (3) = 3,955 BETA (2) = .186 M	MACH = .89787	o	- 26	598.42	•	= 1060.5	RN/L	3.5	3.565
SECTION (1) BODY FLAP LOWER DEPENDE	DEPENDENT VARIABLE CP								
X/LB 1.0180 1.0460									
PH1 .00006261280 40.00010711276									
ALPHA (3) = 3.963 BETA (3) = 4.243 M	MACH * .89787	a	# 55	598.42	•	- 1060.5	RN/L	# W.	3.5652
SECTION (1)BODY FLAP LOWER DEPENDE	DEPENDENT VARIABLE CP								
X/LB 1.0180 1.0460									
PHI .00005281326 40.00008831348				ı					

DATE 13 FEB 76 TABULATED F	PRESSURE DATA - DATYB (AMES 11-073-1)	1-073-1					۵	PAGE 5886	988
	AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP LMR	R ORB BOD)	r FLAP LUR			(XE8026)			
ALPHA (4) = 7.926 BETA (1) =	-3.870 MACH = .89930	•	• 600.20	۵		1060.2	RN/L	ii (A)	3.5747
SECTION (1) BODY FLAP LOWER	DEPENDENT VARIABLE CP								
X/LB 1.0180 1.0460									
PH1 .00004651213 40.00011361267		,							
ALPHA (4) = 7.938 BETA (2) =	.179 MACH = .89930	ď	s 600.20	٩		1060.2	RN/L	M M	3.5747
SECTION (1) BODY FLAP LOWER	DEPENDENT VARIABLE CP								
X/LB 1.0180 1.0460									
1Hd .03004201217 .03000980198									
ALPHA (4) = 7.933 BETA (3) =	4.243 MACH = .89930		= 600.20	٩	#	1060.2	RN/L	*	3.5747
SECTION (1)BODY FLAP LOWER	DEPENDENT VARIABLE CP								
X/L9 1.0190 1.0460									
PH1 .50004921261 40.00008731263									
ALPHA (5) = 11.953 BETA (1) =	-3.854 MACH = .89857	•	599.55	۵.		1060.2	FN/L	# M	3.5673
SECTION (1) BOOY FLAP LOWER	DEPENDENT VARIABLE CP								
X/LB 1.0183 .1.0460									
PHI .00004051200 +0.00011611193									
ALPHA (5) = 11.965 BETA (2) =	. 129 MACH 89857	Ö	599.22	۵		1060.2	RN/L	# PO	3.5673
SECTION (1)BODY FLAP LOWER	DEPENDENT VARIABLE CP								
X/LB 1.0180 1.0460									
PHI .00005271195 .00.00009751868									

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DATE 13 FEB 76

TABULATED PRESSURE DATA - DAIHB (AMES 11-073-1)

AMES 11-07310A148) -140A/B/C/R DRB BODY FLAP LMR

- .89857 DEPENDENT VARIABLE CP 4.257 MACH BETA (3) = SECTION (1) BODY FLAP LOWER ALPHA (5) = 11.949

1.0180 1.0460 X/LB

PHI . 600

-.0341 -.1218

(XE8G26)

PAGE 5887

1060.2

RN/L = 3.5673

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DATE 13 FEB 75 TABULATED PRESSURE DATA - DAINB (AMES 11-073-1)	•			. 6	PAGE 5888
AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP LWR	OY FLAP LW	~	(XE8627)	77) (05 AUG	NUG 75)
REFERENCE DATA		ш.	PARAMETRIC	: DATA	
SREF = 2690.0000 50.FT. XMRP = 1076.6800 IN. XO LREF = 474.8000 IN. YMRP = .0000 IN. YO BREF = 936.0680 IN. ZMRP = 375.0000 IN. ZO SCALE = .0300		RUDDER = BDFLAP = R-ELVN =	0000	SPDBRK :: L-ELVN :: MACH ::	000.
ALPHA (1) = -3.996 BETA (1) = -7.853 MACH = .59658 0	- 594.56	a .	2386.3	RN/L	* 4.848#
SECTION (1) BGDY FLAP LOWER DEPENDENT VARIABLE CP					
X/LB 1.0180 1.0460					
FH1 .00012051748 40.00011291447					
ALPHA (1) = -3.969 BETA (2) = -3.841 MACH · .59658 0 =	= 594.56	•	2386.3	RN/L	* 4.848+
SECTION (1) BCDY FLAP LOKER DEPENDENT ABLE CP					
X/LB 1.0180 1.0460					
PH1 .00011391661 40.03011441351					
ALPHA (1) = -3.949 BETA (3) = .187 MACH = .59658 0 =	= 594.56	•	2386.3	RN/L	# 4.8484
SECTION (1) BODY FLAP LOWER DEPENDENT VARIABLE CP					
X/LB 1.0180 1.0460					
PHI					
ALPHA (1) = -3.357 BETA (4) = 4.268 MACH = .59658 0 =	= 594.56	• •	2386.3	RN/L	# #.8484
SECTION (1) BODY FLAP LOWER DEPENDENT VARIABLE CP					
X/LB 1.0180 1.0450					
РН1 . 35011741634 40.03011721527					

DATE 13 FEB 76 TABULATED PR	RESSURE DATA - OAI48 (AMES 11-073-1)	11-073-1				<u>~</u>	PAGE 5889
4	AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP LMR	7R ORB 8007	C FLAP LWR		(XE8G27)		
ALPHA (1) = -3.972 BETA (5) =	8.340 MACH . 59658	0	* 594.56	<u> </u>	- 2386.3	RN/L	+ 6+8+
SECTION (1)BODY FLAP LOWER	DEPENDENT VARIABLE CP						
X/LB 1.0180 1.0460							
РН1 .00011691620 40.00011461501							
ALPHA (2) = .056 BETA (1) =	-7.886 MACH = .59638	•	- 594.21	a .	* 2386.5	RN/L	- 4.8456
SECTION (1)BODY FLAP LOWER	DEPENDENT VARIABLE CP						
X/LB 1.0180 1.0460							
PHI .000109?1695 40.00010541266							
ALPHA (2) = .065 BETA (2) =	-3.860 MACH = .59538	•	594.2 1	۵	* 2386.5	RNZ	* 4.8456
SECTION (1) BODY FLAP LOWER	DEFENDENT VARIABLE CP						
X/LB 1.018G 1.0460							
PHI .50010831630 40.00011041297							
ALPHA (2) = .070 BETA (3) =	.184 MACH = .59638	•	594.21	4	= 2386.5	FW/L	* 4.8456
SECTION (1) BODY FLAP LOWER	DEPENDENT VARIABLE CP					•	
X/L9 1.0180 1.0460							
PH1 .00011011576 40.00012131405							
ALPHA (2) = .066 BETA (4) =	4.247 MACH . 59638	•	594.21	a .	- 2386.5	RN/L	* 4.8456
SECTION (1) 900Y FLAP LOWER	DEPENDENT VARIABLE CP						
X/LB 1.0180 1.0460							
PHI .000:0561616 40.000:158							

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DATE 13 FEB 76 TABULATED F	PRESSURE D	ATA - 0	PRESSURE DATA - OAI48 (AMES 11-073-1)	S 11-073							PAGE 5890	2890
	AMES 11-0	7310A14	AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP LUR	I/C/R ORB	800Y	FLAP LUR			(XEBG27)	_		
ALPHA (2) = .060 BETA (5) =	8.305	MACH	. 59638	0		594.21	٩		2386.5	PS/L		4.8456
SECTION (1)BODY FLAP LOWER	DEPEN	DENT VA	DEPENDENT VARIABLE CP									
X/LB 1.0180 1.0460												
PHI .00011031596 +0.00010611525												
ALPHA (3) = 3.957 BETA (1) =	-7.887	MACH	- .59608	ø	•	593.49	Q .		2386.0	FN/L	•	¥.9
SECTION (1)5GNY FLAP LONER	DEPEN	ENT VA	DEPENDENT VARIABLE CP									
X/LB 1.0180 1.0460												
PH1 .00010191622 40.00010221268												
ALPHA (3) = 3.951 BETA (2) =	-3.863 MACH	MACH	± .59608	o		593.49	Q.	٠	2386.0	FR/L		#. @±32
SECTION (1)BODY FLAP LOWER	CEPEN	ENT VAI	DEPENDENT VARIABLE CP									
X/L8 1.0180 1.0460	-											
PHI .C001G271565 +0.00010++												
ALPHA (3) = 3.98; BETA (3) =	. 188	MACH	59608	0	•	593.49	۵		2386.0	RN/L	,	4.8432
SECTION (1)BODY FLAP LOWER	DEPEND	ENT VAS	DEPENDENT VARIABLE CP									
X/LB 1.0180 1.0460												
PHI .00019511529 .40.00010391246												
ALPHA (3) = 3.978 BETA (4) =	4.237 MACH		. 59608	a		593.49	۵	•	2386.0	RN/L		4.8432
SECTION (1)BODY FLAP LOWER	DEPEND	ENT VAR	DEPENDENT VARIABLE CP									
X/LB 1.0180 1.0460									٠			
PHI .000 - 1009 - 1526 .000.0+						•						

DATE 13 FEB 76 TABULATED	PRESSURE DATA - DAINB (AMES 11-073-1)	1-073-1)			a.	PAGE 5891
	AMES 11-073(04148) -140A/B/C/R ORB BCDY FLAP LMR	R ORB BODY FLAP LWR		(XE8627)		
ALPHA (3) = 3.980 BETA (5) =	8.292 MACH = .59508	0 = 593.49	۵	- 2386.0	FN/L	* 4.8432
SECTION (1) BODY FLAP LOWER	DEPENDENT VARIABLE CP					
X/LB 1.0180 1.0460						
PH1 .000098!1545 40.00009791455						
ALPHA (4) = 7.936 BETA (1) =	-7.885 MACH = .59590	0 = 593.13	۵	= 2386. 0	RN/L	- 4.8429
SECTION (1)BODY FLAP LOWER	DEPENDENT VARIABLE CP					
X/LB 1.0180 1.0460						
PHI .00008961534 40.00008721192						
ALPHA (4) = 7.944 BETA (2) =	-3.857 MACH =".59590	0 = 593.13	Q	= 2386.0	RN/L	* 4.8429
SECTION (1)BODY FLAP LOWER	DEPENDENT VARIABLE CP					
x/La 1.0180 1.0460						
PHI .00008911460 40.00008961125						
ALPHA (4) = 8.045 BETA (3) =	.182 MACH = .59590	0 = 593.13	۵	= 2386.0	FR/L	* 4.8429
SECTION (1)BODY FLAP LOWER	DEPENDENT VARIABLE CP					
X/LB 1.0180' 1.0460						
P::1 .00008701419 40.00009771229						
ALPHA (4) = 8.043 BETA (4) =	4.239 MACH - = .59590	0 = 593.13	٥	- 2386.0	RN/L	€248.4 *
SECTION (1)BODY FLAP LOWER	DEPENDENT VARIABLE CP					
X/LB 1.0180 1.0460						
PHI .00008561422 40.00009211291						

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AMES 11-07310A148) -140A/B/C/R ORB BODY FLAP LHR TABULATED PRESSURE DATA - DATHB (AMES 11-073-1)

DATE 13 FEB 76

RN/L + 4.8458

(XEBG27)

PASE 5893

2386.5 0 8.317 MACH = .59646 ALPHA (5) = 11.920 BETA (5) =

SECTION (1) BODY FLAP LOWER

-.0702 -.1293 1.0180 1.0463 PH1 .000 40.000 X/LB

DEPENDENT VARIABLE CP

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DATE 13 FEB 76 TABULATED PRESSURE DATA - DAIMB (AMES 11-073-1)			ā.	
AMES 11-073(0AIHB) -140A/B/C/R ORB BODY FLAP LUR	~	(XEBG28)	(DS AUG	
REFERENCE DATA	PARAM	PARAMETRIC D	DATA	
SREF = 2690.0000 SO.FT. XMRP = 1076.6800 in. XO RUDDER EREF = 474.8000 in. YMRP = .00000 in. YO BREF = 936.0680 in. ZMRP = 375.0000 in. ZO R-ELVN SCALE = .0300	16.300		SPDBRK = L-ELVN = MACH =	35.000 10.000 1.400
A! PHA (1) = -3.978 BETA (1) = -3.855 MACH = 1.3927 Q + 599.58 P	**	441.59	RN/I	* 2.9214
SECTION (1) BODY FLAP LOWER DEPENDENT VARIABLE CP				
X/LB 1.6.80 1.0450				
9H7 - 2079 - 2089 - 790.04 - 709.04				
ALPHA (1) = -3.971 BETA (2) = .185 MACH * 1.3927 0 = 599.58 P	<i>‡</i>	441.59	RN/L	* 2.9214
SECTION (1)BODY FLAP LOWER DEPENDENT VARIABLE CP				
X/LB 1.0180 1.0460				
PHI				
ALPHA (1) = -3.579 BETA (3) = 4.270 MACH = 1.3927 0 = 599.58 P	**	441.59	1/N2	₽.92 3¥
SECTION (:) BODY FLAP LOWER DEPENDENT VARIABLE CP				
X/LB 1.0180 1.0450				
### 1910 : 1191: 000:0+				
ALPHA (2) = 369	ar e	65. ! su	2	<u></u>
SECTION : BODY FLAP LOWER CRESHOPIN VARIABLE CP				
05mC*(08€) € €				
(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)				

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DATE 13 FEB 76	TABULATED		SSURE	DATA -	OA14	PRESSURE DATA - DAIWB (AMES 11-073-1)	1-073-1	_				ã	PAGE 5	2885
		Ą	ES 11-	37310A	148)	AMES 11-07310A148) -140A/B/C/R ORB BODY FLAP LMR	R ORB B	90	LAP LHR		(XE8G28)			
ALPHA (2) =045	BETA (2) =		. 182	MACH		* 1.3934	0	e	600.11	۵	441.59	RN/L	N #	2.9212
SECTION (1'BODY FLAP LCHER	P LOYER		DEPE	NDENT	VARIA	DEPENDENT VARIABLE CP								
X/LB 1.0160 1.	1.0460													
PHI . 500 . 2571 . . 40.000 . 2096 .	.2542 .1432													
ALPHA (2) =049	BETA (3) =		4.247	MACH	*	1.3934	o	•	600.11	٩	441.59	FA/L	€ •	2.9612
SECTION (1) BODY FLAP LCHER	P LOWER		13H30	DENT	VARIA	DEPENDENT VARIABLE CP								
X/LB 1.0180 1.	1.0460													
. 000 5460 . 000.04	.2413 .1476													
ALPHA (3) = 3.888	BETA (1) =		-3.879	MACH	H	1.3920	a		599.57	۵	442.06	FN/L	AJ H	2.9184
SECTION (1) BODY FLAP LOWER	P LOWER		13d30	NOENT	VARIA	DEPENDENT VARIABLE CP								
X/L3 1.0180 1.0460	0460													
PHI . COO . 3535 . 40.000 . 3574 .	.33+0 .2596													
ALPHA (3) = 3.892	BETA (2) =		.179	.179 MACH		= 1.3920	ø		599.57	_	442.06	F	ru H	2.918±
SECTION (1)BODY FLAP LOWER	P LOWER		DEPE	DENT	VARIA	DEPENDENT VARIABLE CP								
X/L9 1.0180 1.0450	04:0													
PH: 000. . 599.04	.3250 .2245													
ALPHA (3) = 3.855	BETA (3) =		ч.241 жсн	MACH		- 1.3920	0	Ħ	599.57	۵.	442.06	1/N2	(A)	2.9184
SECTION (1) BODY FLAP LCHER	P LCMER		DEPE	DENT	VARIA	DEPENDENT VARIABLE CP								
X/LB 1.0180 1.0460	0460													
PH1 .000 .3+10 . .40.000 .29+7 .	. 3297 . 2105									,				

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DATE 13 FEB 76 TABULATED PRESSURE DATA - OAIM8 (AMES 11-073-1)	PACE 5896
AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP LHR	****
ALPHA (4) = 7.940 BETA (1) = -3.870 MACH = 1.3916 0 = 599.57 P = 442.30 RN/L	F 2.918
SECTION (1) BODY FLAP LOWER DEPENDENT VARIABLE CP	ma san r
X/LB 1.0180 1.0460	
PHI 500 - 4202 - 000 - 4202 - 000 - 4537 - 3118	
ALPHA (4) = 7.946 BETA (2) = .176 MACH = 1.3916 0 = 599.57 P = 442.30 RN/L	- 2.918th
SECTION (1) BODY FLAP LOWER DEPENDENT VARIABLE CP	
X/LB 1.0180 1.0460	
1Hd . 000 . 4585 . 4055 	
ALPHA (4) = 7.949 BETA (3) = 4.238 MACH = 1.3916 0 = 599.57 P. = 442.30 RN/L	- 2.918+
SECTION (1)BODY FLAP LOWER DEPENDENT VARIABLE CP	
X/LB 1.0180 1.0460	
Hd ተዛነት	
ALFHA (5) = 11.863 BETA (1) = -3.856 MACH = 1.3913 0 = 599.66 P = 442.53 RNL	- 2.91BD
SECTION (! 180DY FLAP LOWER DEPENDENT VARIABLE CP	
X/LB :.0180 :.0460	
1HC 300 5455 3389 3389 3389 3465 54	
ALPHA (5) = 1.873 BETA (2) = .179 MACH = 1.3913 0 = 599.66 P = 442.53 ANL	₹ 2.5180
SECTION 1 1780DY TLAP LOWER DEPENDENT VARIABLE CP	
3018 1.0180 1.0460	
787 - 5750 - 4782 260 - 5750 - 4782 -0.600 - 715 - 3254	

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DATE 13 FEB 76 TABULATED F	PRESSURE DATA - DAI48 (AMES 11-073-1)	1-073-1			Q.	PAGE 5897
	AMES 11-073:0A148) -140A/B/C/R ORB BODY FLAP LMR	ORB BODY FLAP LWR		(XE8628)		
ALPHA (5) = 11.870 BETA (3) =	4.256 MACH = 1.3913	0 = 599.66	۵.	· 442.53	RN/L	- 2.9180
SECTION (1)BODY FLAP LOWER	DEPENCENT VARIABLE CP					
X/LB 1.0180 1.0460						
P).1 .000 .5623 .4875 40.000 .4553 .3231						
ALPHA (6) = 15.854 BETA (1) =	3.831 MACH = 1.3903	Q = 599.44	à	· 443.00	FN/L	- 2.9206
SECTION (1)BODY FLAP LGWER	DEPENDENT VARIABLE CP					
X/LB 1.0180 1.0460	٠					
PH1 .000 .6721 .5286 .000.00						
ALPHA (5) = 15.868 BETA (2) =	.178 MACH = 1.3903	44 299.44	۵	= 443.00	RN/L	= 2.9206
SECTION (1) BODY FLAP LOWER	DEPENDENT VARIABLE CP					
X/LB 1.0180 1.0460						
PHI .C00 .5779 .5359 .40.000 .5326 .3598	••					
ALPHA (6) = 15.859 BETA (3) =	4.283 MACH = 1.3903	n4.665 ≈ 599.44	a	* 443.00	RNL	= 2.9205
SECTION (1)BODY FLAP LOWER	DEPENDENT VARIABLE CP					
X/L3 1.0180 1.0450	.,					•
PHI .000 .6702 .5448 .9.000 .5211 .3683						

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PRESSURE DATA - DAIWB (AMES 11-073-1)	AMES 11-073(0A143) -140A/B/C/R ORB BODY FLAP LMR (XEBG29) (05 AUG 75)	
TE 13 FEB 76 TABULATED PRESSURE DATA - OA	AMES 11-07310A148	

Consequences of the consequences of the properties of the compare of the consequences
REFERENCE DATA		PARAMETRIC DATA	C DATA	
SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO LREF = 474.8000 IN. YMRP = .0000 IN. YO BREF = 936.0680 IN. ZMRP = 375.0000 IN. ZO SCALE = .0300	RUDDER ** BOFLAP ** R-ELVN **	-10.000 16.300	SPOBRK * L-ELVN * MACH *	35.000 10.000 1.250
ALPHA (1) = -3.986 BETA (1) = -3.845 MACH · = 1.2451 0 = 599.58	۵.	552.51	RNAL	3.0225
SECTION (1) BODY FLAP LOWER DEPENDENT VARIABLE CP				
X/LB 1.0180 1.0460				
PH1 .600 .2307 .1957 40.000 .1536 .0881				
ALPHA (1) = -3.96/ BETA (2) = .185 MACH = 1.2451 Q = 599.58	۵	552.5 1	RN/L	3.0255
SECTION (1:) BODY FLAP LOWER DEPENDENT VARIABLE CP				
X/LB 1.0180 1.0460				
PHI	mr.			1
ALPHA (1) = -3.974 BETA (3) = 4.269 MACH = 1.2451 Q = 599.58	a .	552.51	RN/L	- 3.0225
SECTION (1) BODY FLAP LOWER DEPENDENT VARIABLE CP				
X/LB 1.0180 1.0460				
8260: E53: 000.0+				
ALPHA (2) =035 BETA (1) = -3.871 MACH = 1.2459 0 = 599.80	a.	* 552.04	RNIL	* 3.0192
SECTION (!) BODY FLAP LOWER	• • •			
X/LB :.0190 :.0460	•			
### 1855 - 2015 - 000 -	r 20 m			

DATE 13 FEB 76 TABULATED PRESSURE DATA - CA148 (AMES 11-073-1)					PAGE 5899
AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP LMR	Y FLAP LWR		(XE8029)		
ALPHA (2) =027 BETA (2) = .182 MACH = 1.2459 0	* 599.80	٥	■ 552.04	RN/L	= 3.0192
SECTION (1) BODY FLAP LONER DEPENDENT VARIABLE CP					
X/LB 1.0180 1.0460					
941 1000 - 2947 - 2557 1385 - 1385					
ALPHA (2) =032 BETA (3) = 4.246 MACH = 1.2459 Q	= 599.80	۵.	= .552.04	RN/L	3.0192
SECTION (1) BODY FLAP LOWER DEPENDENT VARIABLE CP					
X/LB 1.0180 1.0460					
PHI .000 .2717 .2379 .000.004		٠	-		
ALPHA (3) = 3.922 BETA (1) = -3.869 MACH = 1.2454 Q	= 599.82	۵	* 552.51 ·	RN/L	3.0214
SECTION (1)BODY FLAP LOWER DEPENDENT VARIABLE CP					
X/LB 1.0180 1.0460					
PH1 .CO 0 .390 3 .3206 .CO ₀ .000 .394 3 .2358					
AL ^P HA (3) = 3.922 BETA (2) = .180 MACH = 1.2454 0	= 599.82	۵.	* 552.51	RN/L	3.0214
SECTION (1) BODY FLAP LOWER DEPENDENT VARIABLE CP					
X/LB 1.0180 1.0460 \					
PHI .000 .3957 .3159 .000.000 .3334 .2352					
ALPHA (3) = 3.925 BETA (3) = 4.237 MACH = 1.2454 0	= 599.82	۵	* 552.51	RN/L	- 3.0214
SECTION (1) BODY FLAP LOWER DEPENDENT VARIABLE CP					
X/EB 1.0180 1.0460					
9715 3835 3178					

DATE 13 FEB 76 TABULATED PRESSURE DATA - OAI48 (AMES 11-073-1)			•	PAGE 5900	300
AMES 11-073(0A148) -140A/B/C/R ORB BOTY FLAP LWR		(XE8629)			
ALPHA (4) = 7.990 BETA (1) = -3.870 MACH = 1.2446 Q = 599.59	۵	= 552.98	RN/L	M	3.0205
SECTION (1)BODY FLAP LOWER DEPENDENT VARIABLE CP	•				
X/LB 1.0180 1.0460					
PHI .000 . 40.000 . 40.000 .					
ALPHA (4) = 7.994 BETA (2) = .176 MACH = 1.2446 Q = 599.59	Q.	552.99	RN/L	M)	3.0205
SECTION (1)BODY FLAP LOWER DEPENDENT VARIABLE CP					
X/LB 1.0180 1.0460					
PHI .000. .000.04 .000.04					
ALPHA (4) = 7.996 BETA (3) = 4.240 MACH = 1.2446 Q = 599.59	a.	± 552.98	RN/L	M H	3.0205
SECTION (1)BODY FLAP LOWER DEPENSENT VARIABLE CP					
X/LB 1.0180 1.0460					
PHI .000. .3879 .2354					
ALPHA (5) = 11.923 BETA (1) = -3.851 MACH * 1.2447 0 = 599.71	۵	= 552.98	RN/L	w W	3.0237
SECTION (1)BODY FLAP LOWER DEFENDENT VARIABLE CP					
X/LB 1.018C 1.0460 .					
PHI .000 .5855 .4292 .00.00 .5162 .2973					
ALPHA (5) = 11.934 BETA (2) = .177 MACH = 1.2447 Q = 599.71	٥.	* 552.98	RN/L	m H	3.0237
SECTION (1)BODY FLAP LOWER DEPENDENT VARIABLE CP					
X/LB 1.0180 1.0460					
PH1 .0C0 .5823 .4231 40.0CC .4673 .2780					

DATE 13 FEB 76

TABULATED PRESSURE DATA - DAI48 (AMES 11-073-1)

AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP LUR

599.71 **o** / 1.2447 MACH 4.253 BETA (3) = ALPHA (5) = 11.927

DEPENDENT VARIABLE CP SECTION (1) BODY FLAP LOWER

1.0180 1.9460 X/LB

PHI .000 40.000

.4292 .2566 . 5857

(XEBG29)

552.98

KN/L = 3.0237

PAGE 5901

DATE 13 FEB 76	TABULATED PRESSURE DATA - DAIMB (AMES 11-073-1)	SSURE DAT	[A - 0/	1148 (AMES)	11-073-1							PAGE !	2069	
	AM	ES 11-07	310A14E	AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP LHR	7R ORE BOO	Y FLAP	E.		_	(XE8630)		(05 AUG 75	ž	
REFERENCE DATA									PARAM	PARAMETRIC (DATA			
SREF = 2690.0000 SQ.FT. LREF = 474.8000 IN. BREF = 936.0680 IN. SCALE = .0300	XMRP = 1076. YMRP = 275. ZMRP = 375.	.0000 IN.	228				ፙፙ፞፞፞ፚ፞	RUDDER = BDFLAP = R-ELVN =	-10.000 16.300 .000		SPDBRK = L-ELVN = MACH =	⋈ = ⁻	35.000 10.000 1.100	
ALPHA (1) = -3.994 BETA	1 1 #	-3.852	MACH	1.0997	0	= 600.21	12	۵	a 70	30.607	RN/L		3.1908	
SECTION (1) BODY FLAP LOWER		DEPENDE	'NT VAF	DEPENDENT VAF : ABLE CP										
X/LB 1.0180 1.0430														
PHI .000. .000. .000. .000. .000.														
ALPHA (1) = -3.985 BETA	A (2) =	1 061.	MACH	- 1.0997	o	= 600.21	<u>ن</u>	۵	a. 70	709.06	RN/L	#	3.1908	
SECTION (1) BCDY FLAP LOWER		DEPENDENT VARIABLE	INT VAR	HABLE CP										
X/LB 1.0180 1.0460														
PHI .000 .3038 .2302 40.000 .1732 .0985												, ,		
ALPHA (1) = -3.992 BETA	(3) =	4.268 P	MACH	= 1.0997	o	= 600.21	2	Q	92	709.06	RN/L	#	3.1908	
SECTION (1) BODY FLAP LOWER		DEPENDENT VARIABLE	NT VAR	TABLE CP										
X/L8 1.0180 1.0460														
PH! .00027612095 .40.00020570961														
ALPHA (2) =020 BETA		-3.866 M	MACH	9860.1	0	■ 599.48	9	۵	92	₩2.607	FAV.L	•	3.1886	•
SECTION (1) BODY FLAP LOWER		DEPENDENT VARIABLE	NT VAR	TABLE CP										
X/LB 1.0180 1.0460														
PH1 .000 .3124 .2179 .000 .000 .3333 .1632														

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DATE 13 FEB 76	8 76		1.4	BULATED	PRES	SURE D	ATA -	0A14B	TABULATED PRESSURE DATA - 0A148 (AMES 11-073-1)	11-073-	-					-	PAGE	PAGE 5903
					AME	5 11-0	7310A1	189	AMES 11-07310A148) -!40A/B/C/R ORB BODY FLAP LMR	JR ORB	BODY	FLAP	E		(XE8030)			
ALPHA (2)	*	+10	BETA	(2)		.187	MACH	n	1.0986	o	Ħ	599.48	φ	۵.	709.54	FW/L	•	3.1886
SECTION (1:80DY FLAP LOWER	1380DY	FLAP L	OWER			DEPEN	DEPENDENT VARIABLE CP	'AR I ABI	E CP									
X/LB	1.0180 1.0460	1.046	Ö															
PH1 .000 40.000	.3616	. 2403 . 1298	ដូច															
ALPHA (2)	Đ	017	BETA	(3)		4.244	MACH	•	1.0986	O	•	599.48	6	•	709.54	FR/	•	3.1886
SECTION (1)BODY FLAP LOWER	1.1B00Y	FLAP L	OWER			DEPEN	DEPENDENT VARIABLE CP	'AR I ABI	E CP									
X/LB	1.0180	1.0180 1.0450	<u> </u>															
PH1 .000 .000.04	.2520	. 2343 . 1124	Ŋġ.															
ALPHA : 3)		3.958	BETA			-3.869	MACH		• 1.1006	o		44.009	3	۵	708.14	PN/L		3.1894
SECTION (1)BODY FLAP LOWER	138007	FLAP L	OMER.			DEPEN	DEPENDENT VARIABLE CP	AR I ABL	E CP									
x/LB	1.0180	1.0180 1.0460	Ö															
PH1 . 600 40.000	.4083 .4055	. 2676 . 1825	សិស៊															
ALPHA (3)	a	3.959	BETA	(%)		1111	MACH		1.1006	0	•	600.44	‡	۵	708.14	RN/L	•	3.1894
SECTION (1)BODY FLAP LOWER	1.1B0DY	FLAP L	OWER			NEPEN	DEPENDENT VARIABLE CP	ARIABL	es F									
x/18	1.0190	1.0460	ß															
PH1 .000 .000.03	. 3568	.2811 1701	ent ent															
ALPHA (3)		3.960	BETA	(3) *		4.234	MACH		= 1.1006	0		500.44	3	٩	708.14	RN/L		3.1894
SECTION (1)BODY FLAP LOWER	1390DY	FLAP L	OWER			DEPEN	CEPENDENT VARIABLE CP	'AR I ABL	E CP									
X/LB	1.0180	1.0180 1.0460	足															
PH! .000 .00.00	.4127 .3147	. 2832 . 1428	<u>o</u> po											¥				

DATE 13 FEB 76 TABULATED	TABULATED PRESSURE DATA - OAI48 (AMES 11-073-1)	1-073-1					PAGE 5904	+ 06
	AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP LMR	R ORB BODY	FLAP LWR		(XE8G30)			
ALPHA (4) = 8.035 BETA (1) =	-3.862 MACH = 1.0985	•	599.52	۵.	- 709.77	RN/L	m H	3.1893
SECTION (1) BODY FLAP LOWER	DEPENDENT VARIABLE CP							,
X/LB 1.0180 1.0460								
1Hd 1000. 4939 3099 1900.04 53 1994								
ALPHA (4) = 8.041 BETA (2) =	: .181 MACH = 1.0985	•	599.52	۵	TO9.77	RN/L	m m	3.1893
SECTION (1)BODY FLAP LOWER	DEPENDENT VARIABLE CP							
X/LB 1.0180 1.0460								
PHI .000 .5030 .3122 .000.04			·					
ALPHA (4) = 8.040 BETA (3) =	4.238 MACH = 1.0985	•	599.52	a .	- 709.77	RN/L	M	3.1893
SECTION (1) BODY FLAP LOWER	DEPENDENT VARIABLE CP							
X/L8 1.0180 1.0460								
FH1 .000 .5005 .3156 40.000 .3800 .1671								
ALPHA (5) = 11.975 BETA (1) =	-3.843 MACH = 1.0970	•	599.10	۵.	= 711.19	RN/L	# (A)	3.1892
SECTION (1)BODY FLAP LOWER	DEPENDENT VARIABLE CP							
X/LB 1.0189 1.0460								
PHI .000 .5571 .3355 .000.04								
ALPH4 (5) = 11.985 BETA (2) =	. 181 MACH = 1.0970	•	599.10	a .	- 711.19	RN/L	(F)	3.1892
SECTION (1) BODY FLAP LOWER -	DEPENDENT VARIABLE CP							
X/LB 1.3180 1.0460								
PHI .000 .5621 .3412 40.050 .4523 .1981								

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DATE 13 FEB 76

TABULATED PRESSURE DATA - DAIHB (AMES 11-073-1)

AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP LMR

4.250 MACH = 1.0970 ALPHA (5) = 11.977 BETA (3) =

DEPENDENT VARIABLE CP

SECTION (1)800Y FLAP LOWER

1.0180 1.0460 X/LB

.5626 9H1 .000 .00

.3384

PAGE 5905

FN/L = 3.1892

711.19

599.10

(XE8630)

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PAGE 5906

* 3.5777

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= 1059.2

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SPOBRK -L-ELVN -MACH -

-10.000 16.300

RUDDER -BOFLAP -R-ELVN -

Street frank, to all openhage to

(XE8631) (05 AUG 75) PARAMETRIC DATA AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP LWR TABULATED PRESSURE DATA - 0A148 (AMES 11-073-1) REFERENCE DATA

= 600.28 0 -3.852 MACH = 1076.6800 IN. XO = .0000 IN. YO = 375.0000 IN. ZO ALPHA (1) = -3.977 BETA (1) = XMRP YMRP ZMRP 2690.0000 SO.FT. 474.8000 IN. 935.0E80 IN. SREF = LREF = BREF = SCALE =

DEPENDENT VARIABLE CP SECTION (1) BODY FLAP LOWER

1.0180 1.0450 .2314 .0556 .000 40.000 X/LB

DEPENDENT VARIABLE CP .187 MACH (G) BETA SECTION (1)BODY FLAP LOWER 1.0180 1.0460 .3340 .1213 ALPHA (1) = -3.975 PH1 .000 40.000 X/LB

1059.2 4.269 MACH # .89977 DEPENDENT VARIABLE CP 13) = ALPHA (1) = -3.935 BETA SECTION (1) BODY FLAP LOWER

1.3180 1.0460 X/LB

.3069 .1030 .2206 .0175 .000 40.000

1050.9 596.63 -3.870 MACH = .89780 DEPENDENT VARIABLE CP ALPHA (2) = -.002 BETA SECTION (1) BCDY FLAP LOWER

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1.0190 1.0460 X/LB

PAGE 5907	(XE8G31)	P = 1060.9 RN/L = 3.5705				P * 1050.9 RN/L * 3.5706				P = 1059.5 RN/L = 3.5709				P = 1059.5 RN/L = 3.5709				P = 1059.5 RN/L = 3.5709			
1-073-1)	R ORB BODY FLAP LWR	0 = 598.63				0 = 598.63				0 = 599.00				0 - 599.00				0 = 599.00		·	
PRESSURE DATA - DAI%8 (AMES 11-073-1)	AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP LWR	.184 MACH = .89780	DEPENDENT VARIABLE CP			4.247 MACH = .89780	DEPENDENT VARIABLE CP			-3.872 MACH = .89870	DEPENDENT VARIABLE CP			.184 MACH * .89870	DEPENDENT VARIABLE CP			4.243 MACH = .89870	DEPENDENT VARIABLE CP		
DATE 13 FEB 76 TABULATED P		ALPHA (2) = .000 BETA (2) =	SECTION (1)BODY FLAP LOWER	X/LB 1.0180 1.0460	PH1 .000 .3279 .1110 .000.00	ALPHA (2) =010 BETA (3) =	SECTION (1)BODY FLAP LOWER	X/LB 1.0180 1.0460	FHI .500 .3079 .1067 40.660 .2076 .0114	ALPHA (3) = 3.984 BETA (1) =	SECTION (1) BODY FLAP LOWER	X/L8 1.0180 1.0460	PH1 .COD .3632 .1241 .00.000 .2993 .0539	ALPHA (3) = 3.983 BETA (2) =	SECTION (1) BODY FLAP LOWER	X/LB 1.0180 1.0460	PHI .000 .3577 .1243 90.000 .2844 .0401	ALPHA (3) = 3.979 BETA (3) =	SECTION (1)BODY FLAP LOYER	X/LB 1.0180 1.0460	PM 1251 . 8553

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DATE 13 FEB 76	,,,	TA	TABULATED		ESSURE (ATA -	0A146	PRESSURE DATA - DAINE (AMES 11-073-1)	1-073-1	_					Ω.	PAGE 5908	8069
				∢	MES 11-(17310A1	- (81	AMES 11-073104148) -1404/8/C/R ORB BODY FLAP LWR	R ORB B	90Y F	LAP LWR			(XE8631)			
ALPHA (4) =	8.057	BETA	2	ţ)	-3.860	MACH		89807	a	•	598.57	۵.		1050.2	1/ N2/	H .	3.5677
SECTION (1) BODY FLAP LOWER	NODY FLAP	LOWER			13d30	DEPENDENT VARIABLE CP	AR I AB	LE CP			•						
x/LB 1.0	1.0180 1.0453	691															
PH1 . 000 . 3	.3959 .13	.1346 .0567															
ALPHA (4) =	8.064	BETA	(2)		.187	MACH	•	. 89807	o	•	598.57	۵		1060.2	7/88/		3.5677
SECTION 1 11BODY FLAP LOWER	ODY FLAP	LOWER			DEPEN	DEPENDENT VARIABLE CP	AR I ABI	LE CP									
X/LB 1.0	1.0180 1.0450	150															
PH1 . 000 .3 40.000 .2	. 3975 . 2889	. 1320															
ALPHA (4) =	8.059	BETA	3	B	4.245	MACH		.89807	o		598.57	Q	-	1050.2	PS/L	M	3.5677
SECTION (1)BODY FLAP LOWER	ODY FLAP	LOWER			DEPEN	DEPENDENT VARIABLE CP	ARIABI	LE CP									
אינם 1.0	1.0180 1.0460	90															
PH1 .000. .000.04	. 5754. 8753 . 03	.0355															
ALPHA (5) =	11.980	BETA	0		-3.854	MACH		.89717	o		598.01	۵.	-	1061.4	RY.L	6	3.5714
SECTION (1)BODY FLAP LOWER	OOY FLAP	LOWER			DEPEN	DEPENDENT VARIABLE CP	IR I ABL	95 14									
X/LB 1.0	1.0180 1.0460	60															
PHI . 000 . 4	4209 .:395 3141 .0499	بارة 10 م															
ALPHA (5) =	11.990	BETA	(2)	u	. 184	MACH		.89717	ø		598.01	Q.	-	1061.4	FW/L		3.5714
SECTION (1)BCDY FLAP LOWER	COY FLAP	LOWER			DEPEN	DEPENDENT VARIABLE CP	IR I ABE	E CP									
X/LB 1.0	1.0130 1.0450	60															
941 - 000 - 40.000 - 64	.4216 .1373 .2954 .0238	73 38										•					

and a second contrast to the second of the second forms of the second se

DATE 13 FEB 76

. TABULATED PRESSURE DATA - DAIHB (AMES 11-0-3-1)

AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP LUR

(XEBG3:)

BETA (3) = SECTION (1) BODY FLAP LOWER ALPHA (5) = 11.975

1.0180 1.0460 X/LB

PH1 .000 +0.000

.1436 .4272 .2793

DEPENDENT VARIABLE CP 4.259 MACH

598.01

O

- .89717

1061.4 - RN/L = 3.5714

PAGE 5909

Applies of the second of the s

A second of the fill being and the second of
AMES 11-073104148) -1404/8/C/R OR8 BODY FLAP LUR

4, B170 35.000 10.000 10.000 DS ALC TIS 3 SPOBRK = L-ELVN = MACH = Ž PARAMETRIC DATA (XEB632) **2386.3** -10.000 16.300 RUDDER * BOFLAP * R-ELVN * 594.68 O * .59664 DEPENDENT VARIABLE CP -7.850 MACH = 1076.6800 IN. XO = .0000 IN. YO = 375.0000 IN. ZO ALPHA (1) = -4,052 BETA (1) = XMRP YP:RP ZMRP GRX2 SECTION (1) BODY FLAP LOVER REFERENCE DATA 2692,0000 SQ.FT. 474,8000 IN. 935,0680 IN. 1.0180 1.0460 SREF = BREF = SCALE = SCALE

X/LB

Ž 2386.3 594.68 O -3.835 MACH = . 59664 DEPENDENT VARIABLE CP " ຄີ - -4.036 BETA SECTION (1)BODY FLAP LOWER 1.0180 1.0463 ALPHA (1) 40.000 ij X/LB

4.BIJD

2386.3 594.68 DEPENDENT VARIABLE CP .. 8 3 BETA SECTION 1 11800Y FLAP LOWER ALPHA (11 = -4.02.)

Z

.1610 -.0355 1.0180 1 0463 .000 .000 .000 ä X/L3

594.68 Ø DEPENDENT VARIABLE CP HACH 4.273 * (f) i ALPHA (1) = -4.028 BETA SECTION 1 13800Y FLAP LONER

4.817D

2386.3

1.0450 1.0185

941 . 330 43. 938

DATE 13 FEB 76 THBULATED PRES	PRESSURE DATA - DAIWB (AMES 11-073-1)	11-073-1		9			ć	PAGE 5911	5911
	AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP LWR	7R ORB 90	OOY FLAP I				í)		
ATTHA [1] = -4.045 BE A [5] = 6	6.346 MACH = .59664	ø	= 594.68		L	≈ 2385.3	Z ENT	•	9. 1
X/LE :.0180 1.0460	UCTENDEN! VARIABLE CF								
PHI .000 .2377 .0163 .40.000 !4310630									
ALPHA (2) = .034 BETA (1) = -7	-7.883 MACH ≈ .59622	ø	* 593.85		۵	- 2386.3	FRN/L		4.8132
SECTION (1) BODY FLAP LOWER	DEPENDENT VARIABLE CP								
X/LB 1.0180 1.0460									
PH1 .000 .2687 .0137 .40.000 .1925 .0364				•					
ALPHA (2) = . 643 BETA (2) = -3	-3.857 MACH = .59622	o	= 593.85		G	- 2336.3	PR/L	•	4.8132
SECTION (1)BODY FLAP LOWER	DEPENDENT VARIABLE CP								
X/LB 1.6180 1.0460									
PH1 .Cn0 .2567 .0150 +0.000 .1928 .0017									
ALPHA (2) = .045 BETA (3) =	.186 MACH = .59622	O	593.85	č G	•	= 2386.3	RN/L		4.8132
SECTION (1) BODY FLAP LOWER	DEPENDENT VARIABLE CP								
X/LB 1.0180 1.0460									
PH1 .000 .2588 .0250 .000 .17350426									
ALPHA (2) = .041 BETA (4) = 4	4.251 MACH = .59622	c	= 593.85	TČ G		= 2386.3	RAZI		4.8132
SECTION (1) BODY FLAP LOWER	DEPENDENT VARIABLE CP								
X/LB 1.0180 1.0460									
PH1 .000 .2512 .0209 40.000 .15470523					i				

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DATE 13 FEB	:B 76	TĀ	TABULATED P	PRESSURE DATA - OAI48 (AMES 11-073-1)	DATA -	0A148	(AMES 1	1-073-1	_					2	PAGE 5912	912
				AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP LMR	073(0A1	18) -11	40A/B/C/I	R ORB BO	OY FL	AP LWR			(XE8632)			
ALPHA (2)	€.035	BETA	(2) =	8.312	MACH	*	. 59622	ø	i)	593.85	•	λί #	2386.3	RN/L	3	4.8132
SECTION (SECTION (1) BODY FLAP LOWER	P LOWER		13430	DEPENDENT VARIABLE CP	ARIABLE	6									
X/LB	1.0180 1.0	1.0460														
PH1 .000 +0.000	. 2733 5741.	. 0297 0552														
ALPHA (3)	#10.# =	BETA	(1)	-7.879 MACH	MACH	*:	. 59662	o	in •	593.50	۵	ຄິ •	₽386.4	FN/L	<i>3</i>	4.8147
SECTION (SECTION (1) BODY FLAP LOWER	- LOWER		DEPE	DEPENDENT VARIABLE CP	ARIABLE	a 5									
X/LB	1.0180 1.0	1.0450														
PH1 .000 ¥0.000	0. 5895. 0. 3815.	.0275 .0313														
ALPHA (3)	= 4.036	BETA	(S) #	-3.855	MACH	u;	. 59602	o	រ រ	593.50	۵	તાં *	2386.4	PN/L	j H	4.8147
SECTION (SECTION (1) BODY FLAP LOWER	LOWER		DEPE	DEPENDENT VARIABLE CP	AR I ABLE	a 5									
X/LB	1.6180 1.0460	1460														
PH1 .300 .000	0. 8775. 0 1705.	.0312 0085														
ALPHA (3)	± 4.015	BETA	(3) #	961.	MACH	H.	. 59602	o	, S	593.50	۵.	₩	2386.4	RN/L	j I	4.8147
SECTION (SECTION (1150DY FLAP LOWER	HENCY .		DEPEA	DEPENDENT VARIABLE CP	AR I ABLE	8	-								
X/LB	1.0180 1.0	1.0463														
PH! .000 40.000	0. 2793 0 849	. 0241														
ALPHA (3)	= 4.015	BETA	H (7:	4.243	MACH	H.	.59602	0	ši *	593.50	<u> </u>	€ •	2386.4	PN/L	s I	4.8147
SECTION (SECTION (1) BODY FLAP LOWER	LOWER		DEPEN	DEPENDENT VARIABLE CP	ARIABLE	8									
X/L9	1.0:80 1.0460	091;														
9H1 .000 40.000	. 2849 . 1775 0	.0272 0381														

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TABULATED PRESSURE DATA - OA148 (AMES 11-073-1) AMES 11-073(OA148) -140A/B/C/R ORB BODY FLAP LMR
8.295 MACH
DEPENDENT VARIABLE CP
-7.877 МАСН
DEPENDENT VARIABLE CP
-3.848 MACH
DEPENDENT VARIABLE CP
. 188 МАСН
DEPENDENT VARIABLE CP
4.243 MACH
DEPENDENT VARIABLE CP

DATE 13 TEB 76 TABULATED	PRESSURE DATA - DAI'48 (AMES 11-073-1)	73-1)		PAGE 5914	ž
	AMES 11-073(04148) -140A/B/C/R CRB BODY FLAP LWR	R BODY FLAP LUR	(XE8632)		
ALPHA (4) = 8.082 BETA (5) =	8.301 MACH = .59636 0	- 594.21 P	= 2386.7	RN/L = 4.8	4.8181
SECTION (1) BODY FLAP LOWER	DEPENDENT VARIABLE CP				
X/LB 1.0160 1.0460					
PHI .000 .3144 .0454 40.000 .18350470					
ALPHA (5) = 12.017 BETA (1) =	-7.830 MACH = .59626 0	= 593.97 P	= 2386.7	FN/L = 4.8	4.8175
SECTION (1) BCDY FLAP LOWER	DEPENDENT VARIABLE CP				
K/LB 1.0180 1.0460					
PH1 . 300 . 3253 . 0457 40.000 . 23720275					
ALPHA (5) = 12.037 BETA (2) =	-3.825 MACH = .59626 Q	• 593.97 P	= 2386.7	RN/L . 4.6	4.8175
SECTION (1) BCDY FLAP LOWER	DEPENDENT VARIABLE CP				
K/LB 1.0180 1.0460					
PH1 . 500 . 3299 . 0487 .40.000 . 23780035	•				
12.038 BETA (3) =	.185 MACH = .59626 0	= 593.97 P	- 2386.7	RN/L - 4.8	4.8175
SECTION (1) BODY FLAP LOWER	DEPENDENT VARIABLE CP				
VLB 1.018C 1.0460					
PHI .c00 .3344 .0511 40.550 .22240039					
LPHA (5) = 12.033 BETA (4) =	4.256 MACH = .59626 0	= 593. <i>97</i> P	= 2386.7	FRV.L . 4.8	4.8175
SECTION (1:80DY FLAP LOWER	DEPENDENT VARIABLE CP				
7/LB 1.9185 1.0450 ·					
1450. 3356. 000. 3420. 3356. 000. 3550. 73.					

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TABULATED PRESSURE DATA - 0A148 (AMES 11-073-1)

AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP LUR

= 593.97

8.318 MACH = .59626

BETA (5) =

ø

DEFENDENT VARIABLE CP SECTION (1) BODY FLAP LOWER

1.0180 1.0460

(XEBG32) 2386.7

PAGE 5915

RN/L = 4.8175

ALPHA (5) = 12.024 X/LB

TABULATED PRESSURE DATA - 0A148 (AMES 11-073-1)

AMES 11-073(04148) -140A/B/C/R ORB BODY FLAP LWR

1 05 AUG 75) PAGE 5916 (XE8633)

2.9043 2.9043 2.9043 2.9098 SPOBRK * L-ELVN * MACH ž 3 ž ž PARA TETRIC DATA 10.000 16.300 10.000 439.71 * 440.18 **=** 439.71 = 439.71 RUDDER = BDFLAP = R-ELVN = ٥ ۵ 599.12 599.12 599.12 599.11 ø a đ MACH = 1.3952 **= 1.395**2 DEPENDENT VARIABLE CP DEPENDENT VARIABLE CP DEPENDENT VARIABLE CP DEPENDENT VARIABLE CP -3.848 MACH 4.277 MACH -3.866 MACH = 1076.6800 IN. XO = .0000 IN. YO = 375.0000 IN. ZO . 195 ALPHA (1) = -4.110 BETA (1) = BETA (1) = # (2) (3) = ALPHA (1) = -4.105 BETA ALP4A (1) = -4.114 BETA REFERENCE DATA SECTION (1)BODY FLAP LOWER SECTION (1)BODY FLAP LOWER SECTION (1)BODY FLAP LOWER SECTION (1:BODY FLAP LOWER 2690.0000 SG.FT. 474.8000 IN. 936.0680 IN. .0566 1.0180 1.0460 1.0:80 1.0460 1.0189 1.0460 .0337 TEE0. 1.0180 1.0460 -.049 1914 . 0362 5360 . 1930 .0454 . 1467 ALPHA (2) FH1 .000 40.000 ,000 40.000 , 000 40.000 40.000 SCALE = Ξ Ξ ā. X/LB X/LB X/LB X/LB

DATE 13 FEB 76 TABULATED PRI	PRESSURE DATA - 0A148 (AMES 11-073-1	1-073-1				-	PAGE 5917
I V	AMES 11-073(04148) -140A/B/C/R ORB BODY FLAP LWR	R ORB BOD	Y FLAP LWR		(XE8633)	•	
ALPHA (2) =046 BETA (2) =	.181 MACH = 1.3944	o	= 599.11	•	■ 440.18	RN/L	- 2.9098
SECTION (1) BODY FLAP LOWER	DEPENDENT VARIABLE CP						
x/LB 1.0180 1.0460							
PHI .000 .2593 .2548 .000.04							
ALPHA (2) =050 BETA (3) =	4.256 MACH = 1.3944	ø	= 599.11	Q.	■ 440.18	RNAL	8 506.2 *
SECTION (1) BODY FLAF LOWER	DEPENDENT VARIABLE CP						
X/LB 1.0180 1.0460							
PH1 . 000 . 2509 . 2409 . 000 . 04							
ALPHA (3) = 3.895 BETA (1) =	-3.869 MACH = 1.3948	ø	± 599.42	۵	# 440.18	RN	* 2.9147
SECTION (1)BODY FLAP LOWER	DEPENDENT VARIABLE CP						
X/L8 1.0180 1.0460							
PH1 .500 .3447 .3291 .0.000 .2438 .1769							
ALPHA (3) = 3.895 BETA (2) =	.190 MACH = 1.3948	0	= 599.42	٥	* 440.18	FN/L	= 2.9147
SECTION (1)BODY FLAP LOWER	DEPENDENT VARIABLE CP						
X/LB 1.018G 1.046C							
PH1 .000 .3523 .3289 .000.04							
ALPHA (3) = 3.896 BETA (3) =	4.246 MACH = 1.3948	o	* 599.42	۵	* 440.18	RAL	- 2.9147
SECTION (1) BODY FLAP LCHER	DEPENDENT VARIABLE CP						
X/LB 1.0180 1.0460							
146 - 000 - 3585 - 3379 - 1971 - 5815 - 000							

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DATE 13 FEB 76 TABULATED PE	PRESSURE DATA - DAING (ANES 11-073-1)	1-073-1			-	PAGE 5918
	AMES 11-07310A148) -140A/B/C/R ORB BODY FLAP LUR	R ORB BODY FLAP	4	(XEB633)	a	
ALPHA (4) = 7.947 BETA (1) =	-3.865 MACH = 1.3944	0 ≈ 599.72	.72 P	- 440.65	RN/L	≠ 2.9146
SECTION (1) BODY FLAP LOWER	DEPENDENT VARIABLE CP					
X/LB 1.0180 1.0460						
PHI .000 .4531 .4135 .000 .3335 .2526						
ALPHA (4) > 7.946 BETA (2) =	.185 MACH = 1.3944	0 = 599.72	.72 P	- 440.65	RNAL	= 2.9146
SECTION (1)BODY FLAP LOWER	DEPENDENT VARIABLE CP					
X/LB 1.0180 1.0460						
PHI .000. .000.04 .3175 .2555						
ALPHA (4) = 7.944 BETA (3) =	4.238 MACH = 1.3944	0 = 599.72	٩ %.	= 440.55	FN/L	- 2.9145
SECTION (1)BODY FLAP LOWER	DEPENDENT VARIABLE CP					
X/LB 1.0180 1.0450						
PHI . 500 . 4705 . 4165 40.069 . 3109 . 2511						
ALPHA (5) = 11 859 BETA (1) =	-3.851 MACH = 1.3955	0 = 599.73	F. P	· 439.94	RN/L	= 2.9121
SECTION (1)8CDY FLAP LOMER	DEPENDENT VARIABLE CP					
X/LB 1.0180 1.0463						•
PHI . 535 . 5668 . 4821 40.000 . 4136 . 3080						
ALPHA (5) = 11.865 BETA (2) =	. 189 жки = 1.3955	0 = 599.73	73 P	* 439.94	RN/L	= 2.9121
SECTION (1)BODY FLAP LOWER	DEPENDENT VARIABLE CP					
X/LB 1.0180 1.0460						
PH1 . 330 . 5574 . 4722 . 40.000 . 4073 . 3204						

5919		2.9121				2.9147				2.9147				2.9147		
PAGE 5919																
Δ.	_	PN/L				RN/L				PN./L				PN/		
	(XE8633)	439.9 4				- 440.41 -				* 440.41				440.41		
		۵				۵				a .				٥		
	FLAP LWR	599.73				599.93				599.93				589.93		
~	, 00	Ħ												•		
11-073-1	3/R ORB 5	a				0				a				0		
TABULATED PRESSURE DATA - OAT48 (AMES 11-073-1)	AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP LMR	4.253 MACH = 1.3955	DEPENDENT VARIABLE CP			-3.830 MACH = 1.3950	DEPENDENT VARIABLE CP			.186 MACH = 1.3950	DEPENDENT VARIABLE CP			MACH = 1.3950	DEPENDENT VARIABLE CP	
ATA	073(0	MAC	DENT			MAC	CDENT			MAC	(DENI		٠		NDENI	
RESSURE (AMES 11-(4.253	13430			-3.830	DEPE			. 186	DEPE			4.283	13d30	
BULATED P		(3) =				1 1 =				(2)				(3) =		
TAS		BETA	LAP LOWER	1.0450	.4755	N9 BETA	LAP LOWER	1.0460	. 5385 . 3697	159 BETA	LAP LOWER	1.0460	.5315 .3850	351 BETA	SECTION I 13800Y FLAP LOWER	1.0450
1 76		= 11.850	1'BODY F	1.0180 1.0460	5712 8404	= 15.8	1 18034	1.0193 1.0460	6701 5194.	= 15.859	11BODY F	1.0180 1.0460	.6579 .4982	= 15.851	1 190001	1.0180 1.0450
DATE 13 FEB 76		ALPHA (5) =	SECTION 1 1'BODY FLAP LOWER	X/LB	PH1 .000 40.600	ALPHA (6) = 15.849	SECTION (1) BODY FLAP LOWER	X/LB	941 . 303 43. 803	ALPHA (6) =	SECTION (1)BODY FLAP LOWER	x /L8	PH1 .000 .40.005	ALPHA (6) =	SECTION (X/L9

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9HI .000 40.000 1 05 AUG 75)

(XEBG34)

PASAMETRIC DATA	RUDDER = 10.000 SPDBRK = 35.000 BDFLAP = 16.300 L-ELVN = .000 R-ELVN = 10.000 MACH = 1.250	P = 550.40 RN/L = 3.0174				P = 550.40 RN/L = 3.0174				P = 550.40 RN/L = 3.0174			
		600.05				600.05				600.05			
						11							
		o				o				o		•	
	1076.6800 IN. XO .0000 IN. YO 375.0000 IN. ZO	-3.845 MACH = 1.2480	DEPENDENT VARIABLE CP			.192 MACH = 1.2480	DEPENDENT VARIABLE CP			4.275 MACH = 1.2480	DEPENDENT VARIABLE CP		
REFERENCE DATA	SREF = 2690.0000 SQ.FT. XMRP = LPEF = 474.8000 IN. YMRP = 835.0680 IN. ZMRP = SCALE = .0300	ALPHA (1) = -4.064 BETA (1) =	SECTION 1 11800Y FLAP LOWER	X/LB 1.0190 1.0460	1Hd . 000. 2245. 2054 . 000.04	ALPHA (!) = -4.041 BETA (2) =	SECTION (11800Y FLAP LOWER	X/LB 1.3183 1.0450	PH1 . C00 . 2243 . 2161 . C00 . 0757 . C491	ALPHA (1) = -4.051 BETA (3) =	SECTION (1)80DY FLAP LOWER	X/LB 1.0180 1.0460	PH1 5055 - 5302 - 1892 5500 - 6855 - 000104

9HI .000 40.000

1.0183 | 1.0450

B''X

3.0137

Z

550.87

ø.

600.19

0

-3.867 MACH * 1.2.76 DEPENDENT VARIABLE CP

ALPHA (2) = -.032 BETA (1) #

SECTION (13903Y FLAP LOWER

DATE 13 FEB 76 TABULATED	_	PRESSURE DATA - DAIWB (AMES 11-073-1)	1-073-1	•				Yd	PAGE 5921
	AMES 11-07	AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP LMR	R CRB B(ON FLAP LUR		iğ.	(XEB634)		
ALPHA (2) = -,029 BETA (2) =	£ 581.	MACH = 1.2476	o	= 600,19	O.	= 550.87	37 RN/L	ار •	3.0137
SECTION (1) BODY FLAP LOWER	DEPENC	DEPENCENT VARIABLE CP							
X/LB 1.0180 1.0460									
PHI .000 .3013 .2552 .000.04									
ALPH4 (2) =035 BETA (3) =	4.251	MACH = 1.2476	0	= 600.19	α .	= 550.87	37 RN/L	٠	3.0137
SECTION (1) BODY : LAP LOWER	DEPENDE	DEPENDENT VARIABLE CP							
X/LB 1.0150 1.0460		•							
PH1 .020 .2751 .2409 .40.060 .1511 .1036									
ALPHA (3) = 3.925 BETA (1) =	-3.871	MACH = 1.2463	o	= 599.48	۵	= 551.33	33 RN/L		3.0145
SECTION (1:BODY FLAP LOWER	DEPENDE	DEPENDENT VARIABLE CP							
X/LB 1.0193 1.0450									
PHI : 000 : 3852 : 3189 • 0.000 : 2540 : 1938									
ALPHA (3) = 3.924 BETA (2) =	. 180	MACH = 1.2463	0	₽ 299.48	Q	551.33	1/N94. E3	^س ا	3.0145
SECTION (1)800Y FLAP LOWER	DEPENDE	DEPENDENT VARIABLE CP							•
X/LB 1.0183 1.0463									
PH1 .000 .3930 .3164 .000.04									
ALPHA (3) = 3.934 BETA (3) =	4.244	MACH = 1.2463	0	= 599.48	Q.	= 551.33	53 RN/L	₩.	3.0145
SECTION (1:BCDY FLAP LOKER	DEPENDE	DEPENDENT VARIABLE CP							
X/LB 1.0180 1.0460									
PHI .000 .3991 .3210 +0.000 .2335 .1622									

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DATE 13 FEB 75

TABULATED PRESSURE DATA - DAI48 (AMES 11-073-1)

(XE8634)

PACE \$923

AMES 11-073(04148) -1404/8/C/R ORB BODY FLAP LAR

552.28

##[O.B =

1/2

= 1.2455 4.253 MACH ALPHA (5) = 11.924 BETA (3) =

DEPENDENT VARIABLE CP

SECTION (1)BODY FLAP LOWER X/LB 1.0180 1.0450

PHI .000 40.000

.5775

. 2702

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TABULATED PRESSURE DATA - DAINB (AMES 11-073-1)

The tribe probability of the form of the following the following the following of the follo

PASE 3524

55 AUG PARAYETRIC DATA (XEBG35) AMES 11-073(0A148) -140A/B/C/R OR3 BODY FLAP LUR REFERENCE DATA

1771.E 3.17.1 3.1771 SPORT * Ž Š Š **■** 755.74 706.74 106.14 708.12 RUDDER = BDFLAP = R-ELYN = ۵ 599.93 599.90 599.08 599.90 O ø **=** 1.1012 **≖** 1.1012 = 1.1012 = 1.6993 DEPENDENT VARIABLE CP DEPENDENT VARIABLE CP DEPENDENT VARIABLE CP DEPENDENT VARIABLE CP -3.846 MACH . 195 MACH -3.863 MACH = 1675.6800 IN. XO = .0030 IN. YO = 375.0000 IN. ZO MACH £.27 ALPHA (1) = -4.054 BETA (1) = # (2) 3 ARMY VARAY ORMY ORMY BETA = -.023 €ETA BETA SECTION (13) BODY FLAP LOWER SECTION 1 19CDY FLAP LOWER THEODY FLAP LOWER 1 1300 FLAP LOWER 2690.0000 SQ.FT. 474.8000 IN. 935.0580 IN. ្ត ស្ត្រី ស្ត្ 1.0180 1.0+60 1.3180 1.0460 1.0180 1.0460 1.0186 1.3450 ALPHA (1) = -4.052 -4.082 .2548 .1173 . 2551. . 0725 . 0725 .2581 ALPHA (2) . 036 40.000 45. 030 \$96F LREF BREF SOALE 20.04 0.00.04 .0.033 .023 SECTION SECTION ALPHA : A.'.'X Ī. ii. e1/x ă W/LB X/LB

DATE 13 FEB 76 TABG .: ED PRE	TABEN HED PRESSURE DATA - DAIMB (ANR)	-073-1					PAG	P.AGE 55.25
AM	AMES 11-073(0A148) -140. 10.	308 8d1 31	TOTA TOB BODY FLAP LUR		:XE	(XE8635)		
ALPHA (2) =020 BETA (2) =	.185 MACH = 1.	•	ະ 599.0ໃ	۵.	= 768.12	IZ RN/L	٠,	3.1793
SECTION (1)BODY FLAP LOWER	DEPENDENT VAS! 4B!		v -					
X/LB 1.0180 1.0460								
PHI . 000 . 3612 . 2479 . 0.000 . 2025 . 1328								
ALPHA (2) =024 BETA (3; =	4.249 MACH *	ø	= 599.08	۵	- 708.12	IZ RN/L	٠ •	3.1793
SECTION (1) BODY FLAP LOWER	DEPENDENT VARIABLE CP							
X/LB 1.0180 1.0460		, .						
PH1 . 300 . 3095 . 2192 40.000 . 1910 . 0950								
ALPHA (3) = 3.952 BETA (1) = -	-3.863 MACH = 1.0983	o	= 598.70	Q.	= 709.06	JG RRV/L	٠ •	3.1785
SECTION (1) BODY FLAP LOWER	DEPENDENT VARIABLE CP							
X/LB 1.0180 1.0460								
PHI . 000 . 4107 . 2744 40.000 . 675.								
ALPHA (3) = 3.952 BETA (2) =	.189 MACH * 1.0983	o	598.70	۵	= 709.06	JG RRV/L	ر -	3.1785
SECTION (1) BODY FLAP LOWER	DEPENDENT VARIABLE CP							
X/LB 1.0189 1.0460								
PH1 . CCO . 4204 . 2743 40.000 . 2755 . 1429								
ALPHA (3) = 3.950 BETA (3) =	4.243 MACH = 1.0983	o	598.70	٥	- 709.06	DG FRN/L	ار. -	3.1785
SECTION (1) BODY FLAP LOWER	DEPENDENT VARIABLE CP				•			
X/LB 1.0180 1.0460								
PH1 .000 .4943 .2670 40.000 .2530 .1161								

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DATE 13 FEB 76 TABULATED PRESSUR	PRESSURE DATA - DAINB (AMES 11-073-1)	1-073-1				, ,	PAGE 5926	
AMES 1	AMES 11-073(04148) -1404/8/C/R ORB BODY FLAP LIR	R ORB BOD	Y FLAP LHR		(XEB032)	Ğ		
ALPHA (4) = 8.030 BETA (1) = -3.862	62 MACH = 1.0987	G	= 598.E7	٥.	- 708.35	RN/L	- 3.1769	a)
SECTION (1) SODY FLAP LOKER DE	DEPENDENT VARIABLE CP							
X/LB 1.0180 1.0460								
PH1 .000 .4955 .3097 .000.000 .3441 .1735								
ALPHA (4) = 8.038 BETA (2) = .18	.183 MACK = 1.0987	a	- 598.57	۵	= 708.35	AN /L	- 3.1769	a
SECTION (1)BODY FLAP LOWER	DEPENDENT VARIABLE CP							
X/LB 1.0180 1.0460	•				٠			
PH1 000. 000.04 000.04	٠							
ALPHA (4) = 8.037 BETA (3) = 4.237	37 MACH = 1.0987	o	598.57	۵	- 708.35	RN/L	- 3.1769	m
SECTION (1) BODY FLAP LOWER DE	DEPENDENT VARIABLE CP							
X/LB 1.0180 1.0460								
PHI .000 .4925 .3049 .000.04								
ALPHA (5) = 11.975 BETA (1) = -3.842	42 МАСН * 1.0987	•	599.75	•	- 708.59	RN/L	3.1753	M
SECTION (1)BODY FLAP LOWER	DEPENDENT VARIABLE CP						•	
X/LS 1.0180 1.0460								
PH1 .000 .559+ .337+ .000.00+								
ALPHA (5) = 11,985 BETA (2) = .188	BB MACH = 1.0987		= 598.75	۵.	- 708.59	PRV1	- 3.1753	M
SECTION (1) BCDY FLAP LOWER DE	DEPENDENT VARIABLE CP							
X/L3 1.0180 1.0460								
PHI . 000 . 5624 . 3381 40.000 . 4009 . 1919								

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	XE86351	708.59			٠.	
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		598.75			·	
	AMES 11-073(04148) -1404/B/C/R ORB BODY FLAP LIFE	LD.		٠		٠
-1	80					
-073	ORB	0	·			
=======================================	C/R					
AMES	A/8/	186	<u>e</u>			
TABULATED PRESSURE DATA - OAIHB (AMES 11-073-1)	-140	4.246 MACH = 1.0987	DEPENDENT VARIABLE CP			
A!4	@	#	RIA			
1	OAIK	3	, ¥	• :		
DATA	073(ξ	NOE!			
JAE		345	EPE			
ESS1	MES	÷	_			
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•		BETA	MER	_	_	
			7	0460	3337	1941
		11.981	FLA	<u>.</u>		•
ر0			SECTION I 11800Y FLAP LOWER	1.0180 1.0460	3572	.3763
DATE 13 FEB 76		ALPHA (5) =	1.6	1.0	u?	17.
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<u> </u>		Y.Y.	ECT I	αί	H	40.000
OA		4	ĸ	X/LB	u.	

DATE 13 FEB 76		TABULATED	1150	PRESSURE DATA - DAIMB (AMES 11-073-1	DATA	- 0A1	48 CAME	5 11-073	-1					•	PAGE !	2928
				AMES 11.	-07310	A148)	AMES 11-073(04148) -140A/8/C/R ORB BODY FLAP LMR	/C/R ORB	BODY	FLAP LE	œ		(XE8636)	~	05 AUG 75	
Œ	REFERENCE DATA											PA	PARAMETRIC	DATA		
SREF = 2690.0000 LREF = 474.3000 BREF = 936.0690 SCALE = 0300	50.FT. IN. IN.	XMRP YMRP ZMRP		076.6800 .0000 375.0000	ZZZ	000 200 200					RUDDER BDFLAP R-ELVN		10.000 16.300 10.000	SPDBRK = L-ELVN = MACH =	M	35.000 .000 .900
ALPHA (1) =	-4.063 BETA	-		-3.844	MACH	* I	.90163	ø	•	501.33	۵	٠	1056.6	RN/L	•	3.5806
SECTION (1) BODY FLAP LOWER	DY FLAP LOWER	_		DEP	DEPENDENT VARIABLE	VARI	ABLE CP									
X/LB 1.0160	80 1.0450															
941 . 000 . 31 . 000 . 34	.3192 .1056 .1588 .0151															
ALPHA (1) =	-4.055 BETA	_	2) =	. 1 <u>9</u> 4	MACH		.90163	. 0		601.33	۵.		1056.6	RN/L		3.5806
SECTION (1)BC	1) BODY FLAP LOWER	_		DEP	DEPENDENT VARIABLE	VARI	ABLE CP									
X/LG 1.0160	60 1.0450															
PH1 .000 .33 +0.000 .17	3340 .1220 1702 .0307															
ALPHA (1) =	-4.060 BETA	_	33 *	4.272	MACH	r	.90163	a	•	601.33	٥	•	1056.6	RN/L	•	3.5805
SECTION (11BC	13BODY FLAP LOWER			DEPE	NDENT	VARI	DEPENDENT VARIABLE CP									
X/LB 1.0180	80 1.0460															
PH1 .000 .29 40.000 .19	.2915 .1074 .1943 .0111															
ALPHA (2) =	AT36 540.	~		-3.866	MACH	ı	.90027	a		600.16	۵.		1057.8	RN/L	H	3.5774
SECTION (1)BODY FLAP LCHER	IDY FLAP LCHER			0EP	DEPENDENT VARIABLE	VARI	ABLE CP									
X/LB 1.0180	80 1.0460															
PH1 . 300 . 30 . 500 . 30	.3048 .1053 .2601 .0391															

DATE 13 FEB 76	TABULATED	_	SSURE [ATA - (0A14B	PRESSURE DATA - OAI48 (AMES 11-073-1)	1-073-1						2	PAGE 5929	929
		A	-11 SI	173(0A)	, (8т	AMES 11-073(04148) -1404/B/C/R ORB BODY FLAP LMR	R ORB BOI	۲. ۲.	AP LMR			(XE8635)			
ALPHA (2) .	.092 BETA (2)		.183	MACH	#	.90027	ø		600.16	۰ ۵.		1057.8	FN/L	M	3.5774
SECTION : 19800Y	11BCOY FLAP LOWER		DEPEN	DEPENDENT VARIABLE CP	ARIAB	RE CP									
X/LB 1.0180	1.0460														
PHI	. 1111.														
ALPHA (2) = .	.085 BETA (3)		4.248 MACH	MACH		. 90027	0		600.16	٥		1057.8	FBV/L	.	3.5774
SECTION (1) BODY	1) BODY FLAP LOWER		DEPEN	DEPENDENT VARIABLE CP	ARIAB	LE CP									
X/LB 1.0180	1.0460														
1Hd .000 .04 .000.04	.1085 .001 8														
ALPHA (3) = 3.	3.973 BETA (1)	•	-3.873 MACH	MACH	•	. 89927	ø		599.24	a		1058.5	RAYL		3.5740
SECTION (1)BCDY	1)BODY FLAP LOWER		DEPEN	DEPENDENT VARIABLE CP	AR I ABI	LE CP								·	
X/LB 1.0180	1.0460														
PH1 .000 .3563 40.000.04	. 1233 . 0507														
ALPHA 3) = 3.9	3.981 BETA (2)		.185	MACH		.89927	o		599.24	۵.		1058.5	RN/L	m m	3.5740
SECTION (1) BODY F	1) BODY FLAP LONER		DEPEN	DEPENDENT VARIABLE CP	AR I ABI	LE CP									
X/LB 1.0180	1.0460														
PH1 .000 .3585 +0.000 .2553	. 1200 . 0313														
ALPHA (3) = 3.9	3.986 BETA (3)		4.242 MACH	MACH		.89927	0	gn #	599.2₩	۵.	•	1058.5	FAVIL	m m	3.5740
SECTION (1)BOOY FLAP LONER	FLAP LOWER		DEPEN	DEPENDENT VARIABLE CP	RIAB	LE CP									
X/LB 1.0180	1.0450														
PH1 .000 .3525 .000.04	. 1203 . 0055								;						

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073-1 } PAGE 5930	ORB BODY FLAP LAR (XEBG38)	0 = 599.92 P = 1058.7 RN/L = 3.5781				0 = 599.92 P = 1058.7 RN/L = 3.5781				1 * 599.92 P * 1058.7 RN/L * 3.5781				1 = 600.28 P = 1059.2 RN/L = 3.5829				= 600.28 · P = 1059.2 RN/L = 3.5829			
PRESSURE DATA - DAIWB (AMES 11-073-1)	AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP LMR	-3.862 MACH = .89970 Q	DEPENDENT VARIABLE CP			.184 MACH ~ .89970 Q	DEPENDENT VARIABLE CP			4.239 MACH = .89970 Q	DEPENDENT VARIABLE CP	Ş	,	-3.854 MACH = .89977 Q	DEPENDENT VARIABLE CP			.188 MACH = .89977 0	DEPENDENT VARIABLE CP		
DATE 13 FEB 78 TABULATED PRI	₹	ALPHA (4) = 8.050 BETA (1) =	SECTION (1) BODY FLAP LOWER	X/LB 1.0160 1.0460	PH1 .000. 3998 .1335 40.C00 .3578 .0542	ALPHA (4) = 8.064 BETA (2) =	SECTION (1) BODY FLAP LOWER	X/LB 1.0180 1.0460	PHI . 000 . 3957 . 309 . 0.000 . 2455 0311	ALPHA (4) = 8.061 BETA (3) =	SECTION (1)BCDY FLAP LOWER	X/LB 1.0180 1.0460	7HI . 000 . 3967 . 1274 .0.000 . 2270 . 0000	ALPHA (5) = 11.93; BETA (1) = -	SECTION (1) BODY FLAP LONER	X/LB 1.0180 1.0460	1641, 7254, 000 1041, 7254, 000 18180, 0775, 000.04	ALP4A (5) * 11.945 BCTA (2) *	SECTION (1) BODY FLAP LONER	3-1-9 3-0180 3-0450	91#] . 855#. 850

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DATE 13 FEB 76	EB 76		TA	BULAT		ESSURE D	ATA - 0	A 14B	TABULATED PRESSURE DATA - DAINB (AMES 11-073-1)	1-073-1	_				_	PAGE 5931	5931
					₹	MES 11-0	7310A14	8	AMES 11-073104148) -1404/B/C/R ORB BODY FLAP LMR	R ORB B	. YO	LAP LHR		(XE8636)			
ALFHA (5) = 11.935	=======================================	1.935	BETA (3)	(3)	#	4.259 MACH = .89977	MACH	11	.89577	œ		600.28	۵.	1059.2	RN/L	•	3.5829
SECTION (1)BODY FLAP LOWER	1 1 BODY	FLAP	LOWER			DEPEN	DEPENDENT VARIABLE CP	RIAB	LE CP					•			
x/L3	1.0180	1.0180 1.0460	90														
990°. 000°. 000°.	. 4229 8545	3 .1382 5 .0016	182 116														

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PAGE 5932	(XE8G37) (05 AUC 75)	PARAMETRIC DATA	10.000 SPDBRK = 35.000 16.300 L-ELVN = .000 10.000 MACH = .500	= 2385.8 RN/L = 4.8726				= 2385.8 RN/L = 4.8726				* 2385.8 FN/L = 4.8726				= 2385.8 = 4.8726				
			RUDDER = BDFLAP = R-ELVN =	Q.				a				7				۵				ı
1.)	-140A/B/C/R ORB BODY FLAP LUR			- 595.14			·	- 595.14				* 595.14				• 595.14				
11-073-	C/R 0RB			a				o				3				0				
TABULATED PRESSURE DATA - DAI48 (AMES 11-073-1)			200	+6963. ■	DEPENDENT VARIABLE CP			#695g· =	DEPENDENT VARIABLE CP			+6963. ►	DEPENDENT VARIABLE CP			- 59694	DEPENDENT VARIABLE CP			
DATA -	-073104		N. XO N. XO N. XO	MACH	NDENT			MACH	NDENT			MACH	NDENT 1			MACH	NDENT V			
PRESSURE	AMES 11-07310A148)		1076.6800 .0000 375.0000	-7.848	1430			-3.845	3430			184	DEPE			4.266	3430			
JULATED								(5) =				(3) =				* *				
DATE 13 FEB 76 TAE		REFERENCE DATA	SREF = 2690.0000 SQ.FT. XMRP LREF = 474.8000 IN. YMRP BREF = 936.0680 IN. ZMRP SCALE = .0300	ALPHA (1) = -4.041 BETA	SECTION (1) BODY FLAP LOWER	X/LB 1.0180 1.0460	PHI .000 .23+6 .0112 .000.000 .15400165	ALPHA (1) = -4.025 BETA	SECTION (1) BODY FLAP LOWER	X/LB 1.0180 1.0460	FH1 .000 .2504 .0192 49.000 .14930328	ALPHA (1) = -3.896 BETA	SETTION (1) BODY FLAP LOWER	X/LB 1.0190 1.0450	PHI . 000 . 2601 . C24+ 495.0 - 293 039+	ALPHA (1) = -3.930 BETA (SECTION () BODY FLAP LOWER	X7L9 1.0180 1.0460	PHI . 000 . 2332 . 0060 . 45.600 . 1300 - 6512	

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DATE 13 FEB 76 TABULATED	TABULATED PRESSURE DATA - OAI48 (AMES 11-073-1)	1-073-1			<u>u</u>	PACE 5933
	AMES 11-07310A148) -140A/B/C/R ORB BDDY FLAP LUR	R ORB BODY FLAP LUR		(XE8037)		
ALPHA (1) = -3.946 BETA (5) =	# 8.339 MACH # .59694	4 595.14	• a	2385.8	RN/L	• 4.8726
SECTION (1)BODY FLAP LOWER	DEPENDENT VARIABLE CP					
X/LB 1.0180 1.0450						
PH1 .000 .2272 .0023 +0.000 .10480807						
ALPHA (2) = .030 BETA (1) =	= -7.898 HACH = .59652	0 = 594.31	a .	2385.8	EX/E	#678.
SECTION (1)BODY FLAP LOWER :	DEPENDENT VARIABLE CP					
X/LB 1.0180 1.0460						
PHI . 000 . 2710 . 0224 43.600 . 1832 0054						
ALPHA (2) = .040 ' BETA (2) =	-3.863 MACH = .59652	0 = 594.31	۵.	2385.8	PA/L	#. F. 1879
SECTION (1)BODY FLAP.LOWER	DEPENDENT VARIABLE CP					
X/LB 1.0180 1.0450						
PHI .000 .2556 .0154 .0.060 .17340144						
ALPHA (2) = .104 BETA (3) =	181 MACH = .59652	0 . = 594.31	•	2385.8	RNAL	#.879#
SECTION (1) BODY FLAP LOWER	DEPENDENT VARIABLE CP					
X/LB 1.0180 1.0460						
1Hd .000 .256+ .0153 .000.0+						
ALPHA (2) * . 102 BETA (4) =	4.244 MACH = .59652	0 = 594.31	•	2385.8	PE/L	* 4.8794
SECTION (1)BODY FLAP LOWER	DEPENDENT VARIABLE CP					
X/L8 1.0180 1.0460						
PH1 .000 .2528 .0191 .90.000 .12480558						

DATE 13 FEB 76 TABLEATED PRESSURE DATA - DAINB (AMES 11-073-1)			PAGE	E 5934
AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP LHR	J	(XEBG37)		
ALPSA (2) * .019 BETA (5) * 8.303 MACH * .59652 0 * 594.31. P	8	2385.8 R	- 7.E	4.8794
SECTION (1) BODY FLAP LCHER DEPENDENT VARIABLE CP				
X/L9 1.0180 1.0460				
P41 .000 .2603 .0200 +0.000 .11120722				
ALPHA (3) = 4.036 BETA (1) = -7.909 MACH = .59620 Q = 593.73 P	# 53	2386.0 R	FN/L =	4.8840
SECTION (1) BODY FLAP LONER DEPENDENT VARIABLE CP				
X:29 1.0180 1.0460				
FH! .030 .2950 .0267 •0.000 .1994 .0073				
ALPHA (3) * 4.041 BETA (2) = -3.867 MACH = .59620 Q = 593.73 P	= 23	2386.0 R	FN/L =	4.8940
SECTION (1) BODY FLAP LOKER DEPENDENT VARIABLE CP				
x/La 1.01800460				
1Hd 0020 - 2809 - 5200 00:00 - 3809 - 5200 00:00 - 3809 - 5200				
ALPHA (3) * 4.040 BETA (3) * .186 MACH * .59620 0 * 593.73 P	* 23	2386.0 RI	RN/L	4.8840
SECTION (1)8007 FLAP LOWER DEPENDENT VARIABLE CP				
X/L9 1.0180 1.0463				
149 .000 .2767 .0184 .000.04				
ALP4A (3) = 4.044 BETA (4) = 4.237 MACH = .59620 0 = 593.73 P	. 53	2386.0 A	FNV.L -	4.8840
SECTION (1) BODY FLAP LOWER DEPENDENT VARIABLE CP				
X/LB :.0180 1.0463				
PHI 20. 3675. 1941. 620.34				

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CATE 13 FEB 76 TABULATED PRESSURE DATA - DAIMB (AMES 11-073-1)	PAGE	PAGE 5935
AMES 11-073(0A148) -146A/B/C/R ORB BODY FLAP LWR	(XE86\$7)	
ALPHA (3) = 4.049 BETA (5) = 8.284 MACH = .59620 Q = 593,73 P = 23	2386.0 RN/L =	4.8840
SECTION (1) BODY FLAP LOWER DEPENDENT VARIABLE CP		
X/LB 1.0180 1.0460		
PHI .000 .2879 .0251 40.000 .13350572		
ALPHA (4) = 7.972 BETA (1) = -7.894 MACH = .59656 G = 594.55 P = 23	2385.8 RN/L =	£.8889
SECTION (1) BODY FLAP LOWER DEPENDENT VARIABLE CP		
X/LB 1.0180 1.0460		
PHI .G00 .3:39 .0359 \u0.300 .2153 .0099		
ALPHA (4) = 7.984 BETA (2) = -3.864 MACH = .59666 Q = 594.55 P = 23	- 3385.8 FN/L -	£. 8889
SECTION (1)BODY FLAP LOWER DEPENDENT VARIABLE CP		
X/LB 1.0180 1.0450		
PHI .000 .3059 .0402 .000 .20220058		
ALPHA (4) * 7.990 BETA (3) * .171 MACH * .59666 Q * 534.55 P * 23	2385.8 RN/L .	£.8869
SECTION (1) BOOY FLAP LOWER DEPENDENT VARIABLE CP		
X/LB 1.0;80 1.0460		
PHI .000 .3243 .0381 .000 .000 .18902143		
ALPHA (4) = 7.990 SETA (4) = 4.234 MACH = .59666 Q = 594.55 P = 23	2385.8 PN/L =	£.88893
SECTION (1)BODY FLAP LOWER DEPENDENT VARIABLE CP		
X/LB 1.0180 1.0460		
PH! 		

DATE 13 FEB 76 TABULATED P	PRESSURE DATA - DAIMS (AMES 11-073-1)	11-073-1				Ω.	PAGE 5936
	AMES 1:-07310A148) -140A/B/C/R ORB BODY FLAP LHR	/R ORB BODY	FLAP LWR		(XE8637)		
ALPHA (4) = 7.988 BETA (5) =	8.289 MACH ≈ .59656	•	594.55	۵	8.2852	RNA	± .8880
SECTION (1) BODY FLAP LOWER	DEPENDENT VARIABLE CP						
X/LB 1.0180 1.0450							
7150. 305. 000. - 000.04. 0351. 000.04							
ALPHA (5) = 11.959 BETA (1) =	-7.860 MACH = .59576	•	594.79	۵	* 2385.8	1/18	# 5888
SECTION (1) BODY FLAP LOWER	DEPENDENT VARIABLE CP						
X/LB 1.0160 1.0462					,		
PHI .3353 .0553 .000.04							
ALPHA (5) = 11,991 PETA (2) =	-3.946 MACH * .59676	•	594.79	•	2385.8	1/2	# # B888
SECTION ! IJBODY FLAP LOWER	DEPENDENT VARIABLE CP						
X/LB 1.01@C 1.0450	•						
3330 - 53350 - 000.04 6950 - 6515 - 000.04							
ALPHA (5) = 11.991 BETA (3) =	.172 HACH * .59676	•	594.79	۵	■ 2385. B	Tire	# #. B888
SECTION (1) BODY FLAP LOWER	DEPENDENT VARIABLE CP						
X/_B 1.015D 1.0450							
9H3 . 333D . 3537 91.10. 7505. 000.04							
ALPLA (51 = 11.985 BETA (4) =	4.243 MACH = .59676	•	594.79	۵	= 2385.8	18	± .₩888
SECTION () BODY FLAP LOWER	DEPENDENT VARIABLE CP						
X/LB [.0180 1.0463							
193 - 2389 - 3465 - 303 - 3187 - 6333 - 3187 - 6533							

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TABULATED PRESSURE DATA - DAINB (AMES 11-073-1)

AMES 11-07310A148) -140A/B:C/R ORB BODY FLAP LWR

PAGE 5937

:XE8037,

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O 8.313 MACH = .59576

DEPENDENT VARIABLE CP

1.0180 1.0450 X/LB

SECTION (1) BODY FLAP LOWER

ALPHA (51 = 11.975 BETA (5) =

PH1 .007 40.000

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AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP LWR	FLAP LWR		IXEB	(XE8638) (05	05 AUG 75 3
REFERENCE DATA			PARAMETRIC DATA	IC DATA	
SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO LREF = 474.8000 IN. YMRP = .0000 IN. YO SREF = 935.0690 IN. ZMRP = 375.0000 IN. ZO SCALE = .0500		RUDDER = BDFLAP = R-ELVN =	10.200 16.300 10.000	SPOBRK = L-ELVN = MACH =	85.000 10.000 1.400
ALPHA (1) = -4.002 BETA (1) = -3.853 MACH = 1.3931 Q =	600.20	۵	* 441.83	3 RN/L	= 2.9112
SECTION (1) BODY FLAP LOWER DEFENDENT VARIABLE CP				•	
X/LB 1.0180 1.0450		·			
PH: .000 .1963 .2176 .000 .01311 .0338					
ALPHA (1) = -3.940 BETA (2) = .193 MACH = 1.3931 Q =	600.20	a.	= 441.83	S RN/L	= 2.9112
SECTION (1) 500Y FLAP LOWER DEPENDENT VARIABLE CP					
X/L9 1.0460					
PHI .006 .1935 .2207 .000 .1236 .0739					
ALPHA (1)3.953 BETA (3) = 4.276 MACH = 1.3931 0 =	600.20	۵	■ 441.83	S RN/L	= 2.9112
SECTION (1) BODY FLAP LOWER DEPENDENT VARIABLE CP					
X/LB 1.0180 1.0460					
PHI .500 .1906 .2107 .0.00 .1573 .1020					
ALPHA (2) = .330 BET. (1) = -3.869 MACH = 1.3931 0 =	599.59	۵	= 441.36	FN/L	= 2.9073
SECTION (1) BODY FLAP LOWER DEPENDENT VARIABLE CP					
X/LB :.0180 1.0%60					
PHI . GOC . 25GO . 2571 40.CCC . 2349 . 1922					

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DATE 13 FEB 76 TABULATED FRESSURE DATA - 0A148 (AMES 11-073-1)			ā	PAGE 5939
AMES 11-073(0A148) -140A/B/C/R OKB BODY FLAP LWR	-	(XE8638)		
ALPHA (2) = .036 BETA (2) = .183 MACH = 1.3931 G = 599.59	- a	441.36	RN/L	= 2.9073
SECTION (1)BODY FLAP LOWER DEPENDENT VARIABLE CP				
X/LB 1.0180 1.0460				
PHI .000 .2599 .2684 .0.000 .2045 .11469				
ALPHA (2) = .034 BETA (3) = 4.255 MACH = 1.3931 0 = 599.59	\$ •	443.36	RN/L	= 2.9073
SECTION (1)BODY FLAP LOWER DEPENDENT VARIABLE CP .				
X/LB 1.0160 1.046G				
PH1 .000 .2535 .2599 .0.000 .2083 .1530				
ALPHA (3) = 3.894 BETA (1) = -3.872 MACH = 1.3932 Q = 599.70	** *	441.36 R	RN/L	= 2.9108
SECTION (1)BGDY FLAP LOWER DEPENDENT VARIABLE CP				
X/L8 1.0180 1.0450				
PHI . 3554 . 3488				
ALPHA (3) = 3.895 BETA (2) = .183 MACH = 1.3932 0 = 599.70	\$.	#1.36 R	EN/L	* 2.9108
SECTION (1) BODY FLAP LOWER DEPENDENT VARIABLE CP.				•
X/LB 1.0180 1.0460				
PHI .030 .354E. 4426 .000.04 40.000. 3064 .4255 .4486 .40.000				
ALPHA (3) = 3.906 BETA (3) = 4.246 MACH = 1.3932 0 = 599.70 P		441.36 R	RN/L	= 2.9108
SECTION: (1) SCOY FLAP LOWER DEPENDENT VARIABLE CP.				
X/LB 1.0180 1.0460				
PHI .000 .3502 .0.00.0±				

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DATE 13 FEB 76 TABULATED	TABULATED PRESSURE DATA - DAIWB (AMES 11-073-1)	73-1)			ā	PAGE 5940
	AMES 11-073(04148) -140A/B/C/R ORB BODY FLAP LIR	RB BODY FLAP LIFE	8	(XE8638)		
ALPHA (4) = 7.922 BETA (1) =	-3.861 HACH = 1.3932 0	= 599.39	34 ·	. 141.12 R	RN/L	- 2.9102
SECTION (1) BODY FLAP LOWER	DEPENDENT VARIABLE CP					
X/LB 1.0180 1.0460						•
PHI .000 . 4747 . 4402 40.000 . 4553 . 3267						
ALPHA (4) = 7.892 BETA (2) =	.182 HACH = 1.3932 Q	* 599.39	₹ •	141.12 R	FR/L	- 2.9102
SECTION (1) BOOY FLAP LOWER	DEPENDENT VARIABLE CP					
X/LB 1.0180 1.0460						
PHI .050 .4720 .4275 .000.04						
ALPHA (4) = 7.830 BETA (3) =	4.245 MACH = 1.3932 0	= 599.39 P	•	141.12 RB	FBN/L	- 2.9102
SECTION (1)BODY FLAP LOWER	DEPENDENT VARIABLE CP					
X/LB 1.0180 1.0450						
PHI .G00 .4379 .00000 .3717 .2858						
ALPHA (5) = 11.870 BETA (1) =	-3.851 MACH = 1.3941 Q	- 600.12 P	- 1491.12		FR/L	2.9072
SECTION (13800Y FLAP LOWER	DEPENDENT VARIABLE CP					•
X/LB 1.0180 1.0460						
PHI .000 .5987 .5050 .000.00 .3812						
ALPHA : 5) = 11,880 BETA (2) =	.187 HACH = 1.3941 Q	■ 600.12 P	- 441.12		BA/L	= 2.9072
SECTION (1)BODY FLAP LOWER	DEPENDENT VARIABLE CP		÷			
X:LB 1.0180 1.0460						
PH1 .050 .5933 .4563 45.023 .791 .3464			ı			

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CATE 13 FEB 78 TABULATED	ED PRES	SURE D	ATA - 0	PRESSURE DATA - DAIHB (AMES 11-073-1)	11-073-	-					Δ.	PAGE 5941	
	AME	5 11-0	7310A14	AMES 11-07310A148) -140A/B/C/R ORB BODY FLAP LMR	C/R ORB	B007	FLAP LWR			(XE8038)			
ALPHA (5) = 11.873 BETA (3)	#	4.255	MACH	MACH = 1.3941	o		600.12	۵	<i>x</i>	441.12	RN/L		2.9072
SECTION (1180DY FLAP LOWER		DEPEN	ENT VA	DEPENDENT VARIABLE CP									
X/LB 1.0180 1.0460													
PH1 .000 .5999 .5072 40.000 .4698 .3471													
ALPHA (6) = 15.853 BETA (1)	11	.829	MACH	-3.829 MACH * 1.3929	O	•	599.99	۵.	*	441.82	RN/L		2.9183
SECTION (1)BODY FLAP LOWER		DEPEN	ENT VA	DEPENDENT VARIABLE CP									
X/LB 1.6180 1.0450													
PH1 .000 .7054 .5547 .0000 .5623 .3842													
ALPHA (6) = 15.866 BETA (2)		. 185	MACH	= 1.3929	ø		599.99	Q.	<i>*</i>	* 441.82	RN/L		2.9183
SECTION (1)BODY FLAP LOWER		DEPEN	DENT VA	DEPENDENT VARIABLE CP									
X/L8 1.0180 1.0460													
PH1 .300 .7014 .5518 +0.303 .5570 .3839					•								
ALPHA (6) = 15.858 BETA (3)		4.285	MACH	MACH * 1.3929	O	•	599.99	۵	g g	441.82	1		2.9183
SECTION (1)BODY FLAP LOWER		DEPEN	DENT VA	DEPENDENT VARIABLE CP									
X/LB 1.0180 1.0460													

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PH1 .033 +6.000

			00000		PAGE 5942
AMES 11-073(0A148) -140A/8/C/R ORB BODY FLAP LMR	300Y FLAP LWR		(AEBG39)	_	
SREF = 2690.0000 SD.FT. XMRP = 1076.6800 IN. XO LMEF = 474 8000 IN. YMRP = .0000 IN. YO BREF = 935.0680 IN. ZMRP = 375.0000 IN. ZO		RUDDER = BDFLAP = R-ELYN =	10.000 16.300 10.000	SPOBRK = L-ELVN = MACH =	85.000 10.000 1.250
PETA () =	= 599.79	۵.	= 551.57	RN/L	* 3.0146
1) BODY FLAP LOWER DEPENDENT VARIABLE CP					
X/LB 1.0180 1.0460					
PH1					
ALPHA (1) = -3.979 BETA (2) = .190 MACH = 1.2464 0	* 599.79	Q.	= 551.57	RN/L	= 3.0146
SECTION (1) BCDY FLAP LOWER DEFENDENT VARIABLE CP					
X/LB 1.0180 1.0460					
1Hg . 000 . 2342 . 2328 . 40.000 . 1050 . 0787					
ALPHA (;) = -3.988 BETA (3) = 4.277 MACH = 1.2464 0	s 599.79	۵	= 551.57	RNA	3.0146
SECTION (1)BODY FLAP LOWER DEPENDENT VARIABLE CP					
X/LB 1.0180 1.0460					
PH; .000 .2322 .2119 .000 0:552 .1018					
A_PHA (2) = .058 BETA (1) = -3.868 MACH = 1.0+68 0	= 599.66	Q	• 551.10	RN/L	3.0101
SECTION (1)BODY FLAP LOWER DEPENDENT VARIABLE CP					
X/LB 1.0189 1.0460					
P+; . 300 . 2850 . 2625 . 45. 000 . 2651 . 1947					

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DATE 13 FEB 76 TABULATED F	D PRESSURE DATA - OAI48 (AMES 11-073-1)	11-073-1				α.	PAGE 5943
	AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP LWR	/R ORB BODY FLAP 1	X		(XE8639)		
A'-PHA (2) = . 062 BETA (2) =	.177 MACH = 1.2468	0 * 599.66	9		551.10	RN/L	3.0101
SECTION (1) BODY FLAP LOWER	DEPENDENT VARIABLE CP						
x/La 1.0150 1.0460							
PHI .000 .3105 .2812 .40.000 .2183 .1497							
ALPHA (2) = .021 BETA (3) =	4.254 MACH = 1.2468	0 = 599.66	e.		551.10	1/8	3,0101
SECTION (1:500Y FLAP LOWER	DEPENDENT VARIABLE CP			•] :	
X/LB 1.0;S0 1.0450							
FH1 .000 .2354 .2503 40.000 .22:5 .1494							
ALPHA (3) = 3.934 BETA (1) =	-3.873 MACH = 1.2469	0 = 599.77	٠ م	1	551.10	RN/L	3.0099
SECTION (1) BODY FLAP LOWER	DEPENDENT VARIABLE CP						
x/L9 1.0180 1.0460							
PHI .550 .4660 .3:48 40.000 .3503 .2500							
ALPHA (3) = 3.935 BETA (2) =	.189 MACH = 1.2469	0 = 599.77	4	ı,	551.10	1/X64	3.0099
SECTION (1)500Y FLAP LOWER	CEPENDENT VARIABLE CP						
X/LB 1.0180 1.0453							
PHI . 00C . 3447 . 00C . 3300 . 2200							
ALPHA (3) = 3.939 BETA (3) =	4.242 · MACH = 1.2459	0 = 599.77	٩	in H	551.10	RN/L	= 3.0099
SECTION (1)BODY FLAP LOWER	DEPENDENT VARIABLE CP						
1.0180 1.0460							
PHI .000 .4036 .3431 40.000 .3119 .5108							

DATE 13 FEB 76 TABULATED (PRESSURE DATA - DAILYB (AMES 11-073-1)	11-073-1			PAG	PAGE 5944
	AMES 11-07310A148) -140A/B/C/R ORB BODY FLAP LMR	/R ORB BODY FLAP LWR	83	(XEB639)		
ALPHA (4) = 7.935 BETA (1) =	-3.863 MACH = 1.2467	₩ 599.84	P = 551.34	.34 RN/L	٠	3.0131
SECTION (1) BODY FLAP LOWER	DEPENDENT VARIABLE CP					
X/LB 1.0180 1.0460						
PHI .000 .5190 .4055 40.000 .4646 .2937						
ALPHA (4) = 7.897 BETA (2) =	.182 MACH # 1.2467	0 = 599.84	P 551.34	BN/L	* نے	3.0131
SECTION (1780DY FLAP LOWER	DEPENDENT VARIABLE CP					
X/L9 1.0:80 1.0460						
PH! . 000 . 5627 . 4017 40. 000 . 4246 . 2735						
ALPHA (4) = 7.878 BETA (3) =	4.243 MACH = 1.2467	0 = 599.84	P = 551.34	SH RN/L	. *	3.0131
SECTION (1) BODY FLAP LOWER	DEPENDENT VARIABLE CP					
X/LB 1.0180 1.0460		•				
PHI .CO5203 .4160 .00.004CO						
ALPHA (5) * 11.869 BETA (1) =	-3.849 MACH = 1.2475	90.003 - 0	P = 550.87	87 RN/L		3.0127
SECTION (1) BODY FLAP LOWER	DEPENDENT VARIABLE CP					
X/LB 1.0180 1.050						
1Hd 500.04 50119. 000.04						
ALPHA (5) 4 11.810 BETA (2) =	.187 MACH = 1.2475	0 = 600.06	P - 550.87	B7 FBV/L	•	3.0127
SECTION (1) BODY FLAP LOWER	DEPENDENT VARIABLE CP					
X/LB 1.0180 1.0460						
PHI .000 : 6082 : 434 45.603 : 6082 : 43.607						

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DATE 13 FEB 76 TABULATED PRESSURE DATA + DAIMB (AMES 11-073-1)

AMES 11-07310A148) -140A/B/C/R ORB BODY FLAP LHR

AFLS 11+U/510A14B) -140A/B/C/R 04B B007 FLAP LMFBETA (3) = 4.252 MACH = 1.2475 Q = 600.06

= 3.0127

RN/L

(XE8G39) 550.87

PAGE 5945

SECTION (1) BODY FLAP LCHER DEPENDENT VARIABLE CP

ALPHA (5) = 11.865

7/LB 1.0180 1.0460 PHI .000 .6099 .4492 40.000 .4557 .2761

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DATE 13 FEB	3 76	TABULATED	ATED		DATA	- 04	PRESSURE DATA - 0A148 (AMES 11-073-1	5 11-073-	-					ш.	PAGE	5946
				AMES 11	-07310	A 148	AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP LMR	C/R ORB	B00 Y	FLAP LH	Œ		(XEBGHD)	_	05 AUG 75	ស្
	REFERENCE DATA	E DATA										2	PARAMETRIC	DATA		
SREF = 26 LREF = 4 BREF = 9 SCALE = 9	2690.0000 SO.FT 474.8000 IN. 935.0680 IN.	FT. XMRP YMRP ZMRP		1076.6800 .0000 375.0000	<u> </u>	222					RUDDER BOFLAP BR-ELVN		10.000 16.300 10.000	SPOBRK = L-ELVN = MACH =	831	85.000 10.000 1.100
ALPHA (1)	= -3.999	BETA (=	-3.842	MACH		- 1.1017	σ		601.11	۵	Ħ	74.707	RN/L		3.1883
SECTION (SECTION (1)BODY FLAP LOWER	LOWER		DEP	DEPENDENT VARIABLE	VAR	I ABLE CP									
X/LB	1.0180 1.0	1.0460														
PHI .000 40.000	. 3069 . 2 . 1926 . 1	.2334 .1361														
ALPHA (1)	-3.997	BETA ()	ري 1	.194	MACH		- 1.1017	o		601.11	Q.		707.47	RN/L	*	3.1883
SECTION (1 1 BODY FLAP LOWER	LOWER		0EP	DEPENDENT VARIABLE	VAR	I ABLE CP									
X/LB	1.0180 1.0	1.0460														
PH1 . 000 . 40. 000	5362 1.850	.2705 .1451														
ALPHA (1)	-3.995	BETA (3	4.277	MACH		1.1017	o	•	601.11	۵		74.707	SN/L	#	3.1883
SECTION F	1) BODY FLAP LOWER	LCHER		DEPE	DEPENDENT VARIABLE	VAR	IABLE CP									
81.X	0.1 D810.1	1.346														
PHI .000 .43.000	5873 5.15.	. 1319														
ALPHA (2)	* .015	BETA (:	-3.867	MACH		1.1001	a	•	500.08	۵		708.37	RN/L	#	3.1860
SECTION 1	I BOOY FLAP LCHER	LCHER		DEPE	NOENT	VARI	DEPENDENT VARIABLE CP									
x/L8	1.0180 1.0	1.0460														
PH1 .000 40.000	. 3514	. 2452 . 1852														

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DATE 13 FEB 76 TABULATED PRESSU	TABULATED PRESSURE DATA - OAI48 (AMES 11-073-1)	1-073-1	•				Δ.	PAGE 5947	۲
AMES	AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP LMR	R ORB BO	DY FLAP LH	œ		(XEBG+0)			
ALPHA (2) = .018 BETA (2) = .1(.181 MACH * 1.1001	o	= 600.08	۵		708.37	RN/L	3.1860	960
SECTION (1'80DY FLAP LOWER DI	DEPENDENT VARIABLE CP								
X/LB 1.0190 1.0460									
PH1 .000 .3856 .2656 40.000 .2823 .1531									
ALPHA (2) = .012 BETA (3) = 4.2	4.250 MACH = 1.1001	σ	= 600.08	۵		708.37	RN/L	- 3.1860	098
SECTION (1) BODY FLAP LOWER	DEPENDENT VARIABLE CP								
X/LB 1.0150 1.0+50									
PH! .000 .3457 .2463 .000.00 .2695 .1260									
ALPHA (3) = 3.919 BETA (1) = -3.86	-3.865 MACH = 1.1005	ø	= 500.31	٥		708.14	PR/1	. 38*B	œ *
SECTION (1) BODY FLAP LOWER	DEPENDENT VARIABLE CP								
X/LB 1.0180 1.0460									
PHI . 000. . 1514. 000. . 1514. 000.				•					
ALPHA : 3) = 3.917 BETA (2) = .1	.178 MACH = 1.1005	0	- 600.31	۵.		708.14	RN/L	3.1848	8
SECTION (1) BODY FLAP LOWER	DEPENDENT VARIABLE CP							•	
X/LB 1.0180 1.0460									
PHI .0004551 .2959 90.0003718 .1758									
ALPHA (3) = 3.924 BETA (3) = 4.24	4.244 MACH = 1.1005	0	= 600.31	Q.	•	708.14	RNY	3.1848	87.6
SECTION 1 13830Y FLAP LOWER	DEPENDENT VARIABLE CP								
X/LB 1.0180 1.0460									
PH1 .000 .441 - 2923 40.000 .3316 .1493									

DATE 13 FEB 76 TABULATED PR	PRESSURE DATA - CAIVB (AMES 11-073-1)	1-073-1				¥d.	PAGE 5948
*	AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP LWR	R ORB BODY FLAP	LIN	8	(XEBG#0)		
ALPHA (4) = 7,901 EETA (1) =	-3.860 MACH * 1.1015	0 • 600.67	ел 67	- 707.22		. J./K	3.183 4
SECTION (1) BODY FLAP LOWER	DEPENDENT VARIABLE CP						
X/LB 1.0180 1.0460							
PH] .000 .5227 .3250 40.000 .4563 .2039							
ALPHA (4) = 7.905 BETA (2) =	.181 MACH # 1.1015	0 = 600.67	67 Р	SS.707.		FN/L	· 3.1834
SECTION (1'BODY FLAP LOKER	DEPENDENT VARIABLE CP						
X/LB 1.0180 1.0950							
FH1 .000. .000.0533 .3256 .1913							
ALPHA (4) = 7.934 BETA (3) =	4.239 MACH = 1.1015	0 = 605.67	67 P	= 707.22		FBV/L	± 3.1834
SECTION (1)803Y FLAP LOKER	DEPENDENT VARIABLE CP						
X/LB 1.0180 1.0450							
PHI .000 .519+ .3233 40.000 .3899 .1674							
ALPHA (5) = 11.906 BETA (1) =	-3.844 MACH = 1.0995	0 = 600.08	4 80	- 709.07		FM/L	= 3.1837
SECTION (1) BODY FLAP LOWER	DEPENDENT VARIABLE CP						
X/LB 1.0180 1.0450							
PHI . 000 . 13759 . 3459 . 10.000 . 1641							
ALPHA (5) = 11.808 BETA (2) =	.188 MACH = 1 0995	0 = 600.08	90 P	- 709.07		- 1/NH	3.1837
SECTION (1) BCDY FLAP LOWER	DEPENDENT VARIABLE CP		1				
X/LB 1.0180 1.0450							
PH1 .000 .5753 .3490 .000545540007							

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(XEBGHD) ANES 11-073(04148) -140A/B/C/R ORB BODY FLAP LWR TABULATED PRESSURE DATA - DAIHB (AMES 11-073-1)

3.1837

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- 709.07

= 600.08

a

4.250 MACH = 1.0995

PAGE 5949

DEPENDENT VARIABLE CP SECTION 1 11800Y FLAP LOWER ALPHA (5) = 11.865

BETA (3) =

1.0:80 1.046G .3473 .1814 .000 .000 X/LB

.5760 .4200

DATE 13 FEB 76

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TABULATED PRESSURE DATA - DAINB (ANES 11-073-1)

AMES 11-07310A1481 -140A/B/C/R ORB BODY FLAP LHR

REFERENCE DATA

SAEF BATEF SCALE SCALE

DATE 13 FEB 76

PARAMETRIC DATA

PAGE 5950

3.5780 85.000 18.000 18.900 SPOBRK : L-ELVN : MACH : 1 1057.8 16.300 RUDDER = BOFLAP = R-ELVN = ٥ **= 595.57** O * .89993 -3.840 MACH 1076.6800 IN. XO .0000 IN. YO 375.0000 IN. ZO BETA (1) = XMRP YMRP ZMRP 2692.0000 50.FT. 474.6000 IN. 935.0580 IN. ALPHA (1) = -3.997

DEPENDENT VARIABLE CP

1.0180 1.0450 1705. 6415. X/LB

SECTION 1 1900Y FLAP LOWER

539.67 C **₹** .89993 . 189 MACH (U) BETA A_PHA (1) a -3.991

3.5780

7:2

1057.8

Ž

1057.8

599.67

O

CEPENDENT VARIABLE CP SECTION (1:800Y FLAP LOWER

1.0180 1.0450 ä 1/X

MACH 4.27 3) = BETA .3354 .1141 .1891 .2359 ALPUA : :) = -3.992 2007 04 0007

CEPENDENT VARIABLE CP SECTION (1:80DY FLAP LOWER

1.0180 1.0460 X/13

.3052 .0944 .2149 -.0018

-3.863 MACH * .89853 DEPENDENT VARIABLE CP ***** ≠ .052 BETA SECTION (1) BODY FLAP LOWER N. PHA C 21

3.5741

È

1059.0

= 598.47

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1.0183 1.0463 X/B

.1

DATE 13 FEB 76 TABULATED PR	PRESSURE DATA - 0A148 (AMES 11-073-1)	1-073-;)				u.	PAGE 5951
	AMES 11-073(04148) -140A/8/C/R ORB BODY FLAP LWR	R ORB BODY FLAP	<u>a</u>		(XEBS41)		
ALPHA (2) = .055 BETA (2) =	. 132 MACH * .89853	0 = 598.47	q 7+	•	1059.0	Z	3.574]
SECTION CITBODY FLAP LOWER	DEPENDENT VARIABLE CP						
X/LB 1.0180 1.0460							
PHI .000 .3293 .1052 .000 04							
ALPHA (2) = .070 BETA (3) =	4.253 MACH = .89653	0 = 598.47	9 Ti		1059.0	: 1 Z	3.5741
SECTION (1)BODY FLAP LOWER	DEPENDENT VARIABLE CP						
X/LB 1.0160 1.0460							
PH1 . 000. . 4315. 000.04							
ALPHA (3) = 3.947 BETA (1) #	-3.858 MACH89830	0 = 598.51	- IS	*	1059.5	£	3.5778
SECTION (1) BODY FLAP LOWER	DEPENDENT VARIABLE CP						
X/LB 1.0180 1.0450							
1H9 1900 - 3641 - 1184 19160 - 8885 - 000.04							
ALPHA (3) = 4.018 BETA (2) =	.184 MACH = .89830	0 = 598.51	9 15		1059.5	Ž	* 3.5778
SECTION (1:800Y FLAP LOWER	DEPENDENT VARIABLE CP						
X/LB 1.0180 1.0460							
PH1							
ALPHA (3) = 4.018 BETA (3) =	4.245 MACH = .83830	0 = 598.51	11 P	•	1059.5	Ž.	= 3.5778
SECTION : 13BODY FLAP LONER	DEPENDENT VARIABLE CP						
X/LB :.3180 1.0460							
PH1 .000 .3677 .1220 40.003 .2368 .005:							

DATE 13 FEB 76 TOABULATED	PRESSURE DATA - DAIMB (AMES 11-073-1)	11-073-1)			•	PAGE 5952
	AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP LWR	R ORB BODY FLAP LWR		(XE8G41)		
ALPHA (4) = 7.919 BETA (1) =	-3.861 MACH = .99927	0 = 599.06	٩	• 1058.3	RN/L	* 3.5789
SECTION (1:300Y FLAP LOWER	DEPENDENT VARIABLE CP		-,			
X/LB 1.0180 1.0450						
PH1 .000 .4056 .1321 40.000 .3101 .0520						
ALPHA (4) = 7.925 BETA (2) =	.181 MACH * .89927	0 = 599.06	۵.	* 1058.3	FW/L	= 3.5789
SECTION (1) BODY FLAP LOWER	DEPENDENT VARIABLE CP					
X/LB 1.0180 1.0460						
PH1 .000. .000.004 .000.004						
ALPHA (4) = .7.877 BETA (3) =	4.247 MACH = .89927	90.665 = 0	۵.	= 1058.3	RN/r	3.5789
SECTION (1) BODY FLAP LOWER	CEPENCENT VARIABLE CP					
X/LB 1.018u 1.0460						
PHI .000.4. 000.04 9510. 5485. 000.04						
ALPHA (5) = 11.893 BE1A (1) =	-3.850 MACH * .89863	0 = 598.63	Q	* 1059.0	FRV/L	* 3.5769
SECTION (1) BODY FLAP LOWER	DEPENDENT VARIABLE CP					
X/L3 1.0190 1.0450						
PH: 346: የተደተ ነጋር 1346 በነበር ነ						
ALPHA (5) = 11.848 BETA (2) =	. 151 MACH = .89963	c = 558.63	4	= 1059.0	FAV.	3.5769
SECTION (1)BODY FLAP LOYER	DEPENDENT "ARIABLE CP					
X/LB 1.0180 1.0450						
PHi .000 .4266 .1370 40.053 .836 .029	·			٠		

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TABULATED PRESSURE DATA - DAIMB (AMES 11-073-1) DATE 13 FEB 76

(XEBG#1) AMES 11-07310A148) -140A/B/C/R OR9 BODY FLAP LMR ALPHA (5) = 11.881 BETA (3) =

o 4.259 MACH = .89863 DEPENDENT VARIABLE CP SECTION (1)BODY FLAP LOWER

1.0180 1.0460 X/LB

.4271 .2737

598.63

1059.0

PAGE 5953

RN/L. * 3.5769

DATE 13 FEB 76 TABULATED PRESSURE DATA - CAIMB (AMES 11-073-1)			Δ.	PAGE 5954
AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP LMR		(XEBG42)		(05 AUG 75)
REFERENCE DATA	•	PARAMETRIC DATA	: DATA	
SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 in. XO LREF = 474.8000 in. YMRP = .0000 in. YD BREF = 936.0680 in. ZMRP = 375.0000 in. ZO SCALE = .0300	RUDDER = BDFLAP = R-ELVN =	10.000 16.300 10.000	SPOBRK = L-ELVN = MACH =	85.000 10.000 .500
ALPHA (1) = -4.049 BETA (1) = -7.852 MACH = .59622 Q = 593.85	• a	2386.3	RN/L	± 4.3696
SECTION (1)BODY FLAP LOWER DEPENDENT VARIABLE CP				
X/LB 1.0180 1.0460				
PHI - 000. - 1185. 000. - 1531 0005				
ALPHA (1) = -3.971 BETA (2) = -3.842 MACH = .59622 Q = 593.85	a .	2386.3	RN/L	± 4.8696
SECTION (1)BODY FLAP LOWER DEPENDENT VARIABLE 3P	ν			
X/LB 1.0180 1.0460				
1Hd - 000 . 2386 0123 - 40.000 . 1657 1657				
ALPHA (1) = -3.889 BETA (3) = .191 MACH = .59622 0 = 593.85	.	2386.3	RN/L	# 4.8E96
SECTION (1) BODY FLAP LOWER DEPENDENT VARIABLE CP				
X/L9 1.0180 1.0460				
14c 000 - 2006 - 2006 - 2006 - 2000 -				

The American Secretaries of the
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= 4.8696

P. F.

2386.3

593.85

4.273 MACH = .59622 DEPENDENT VARIABLE CP

ALPHA (1) = +3.983 BETA (9) =

SECTION : 11BODY FLAP LOWER

1.0190 1.0450

877X

-.0132

. 1426

9H1 .000 40.000

DATE 13 FEB 76 TABULATED PE	PRESSURE DATA - OAI48 (AMES 11-073-1)	1-073-1			₹	PAGE 5955
	AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP LMR	R ORB BODY FLAP LWR		(XEBG42)		
ALPHA (1) = -3.999 FITA (5) =	8.343 MACH = .59622	0 = 593.85	a.	2386.3	RN/L	± 4.8696
SECTION (1) BODY FLAP LOWER	DEPENDENT VARIABLE CP				•	
X/LE 1.0180 1.0460			٠			
PHI .000 .22950120 .0.000 .11810989			•			
ALPHA (2) =003 BETA (1) =	-7.885 MACH = .59612	0 = 593.51	•	2386.1	RN/L	# 4.8734
SECTION (1) SODY FLAP LOWER	DEPENDENT VARIABLE CP					
X/L9 1.0190 1.0460						
PH1 .000 .2692 .0041 .0.000 .1989 .0231						
ALPHA (2) = .104 BETA (2) =	-3.850 MACH = .59612	0 = 593.61	G.	2386.1	RN/L	= 4.8734
SECTION (1) BODY FLAP LOWER	DEPENDENT VARIABLE CP					
x/La 1.0180 1.0450						
PHI .C00 - 2494 - 0521 40.000 - 1805 - 10104						
ALPHA (2) = .114 BETA (3) =	.190 MACH * .59612	0 = 593.61	.	2386.1	RN/L	F 4.8734
SECTION (1) BODY FLAP LOWER	DEPENDENT VARIABLE CP					•
X/LB 1.6:80 1.0460						
PH1 .003 .2518 .0039 40.000 .15846705						
ALPHA (2) = .111 BETA (4) =	4.251 MACH = .59612	0 = 593.61	a	2386.1	RN/L	+.8734
SECTION (1) BODY FLAP LOWER	DEPENDENT VARIABLE CP					
X/LB 1.0180 1.0%60						
PH1 .00025320037 .40.000.13360925						

ESSURE DA1 MCS 11-072 8.310 P DEPENDE C-7.899 P	PRESSURE DATA - 0A148 (AMES 11-073-1) AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP LWR 8.310 MACH = .59612 0 = 593.61 DEPENDENT VARIABLE CP -7.899 MACH = .59674 0 = 594.79 DEPENDENT VARIABLE CP	1-073-1) R ORB BODY FL/	593.61 594.79	a. a.	* 2386.1	64	PAVIL	PAGE 5956 * 4.877	5956 4.8734
# (2)	-3.860 MACH = .59574 DEPENDENT VARIABLE CP	Si N	594.73	o	- 2386.0		RN/L	ÿ ;	4.8833
LPHA (3) = +.C49 BETA (3) = SECTION (1) 920Y FLAP LOWER 7.L9 1.0180 1.0460 PH1 .000 .2734 .0189 +0.000 .1756C524	.193 MACH = .59674 DEPENDENT VARIABLE CP	56 1	594.79	۵	* 2386.0		RN/L	# •	4.8833
SECTION (1) BODY FLAP LOWER ALB 1.0180 1.0460 PHI .000 .2758 .0082 40.000 .15160759	4.242 MACH = .59674 DEPENDENT VAR!ABLE CP	ន្ត •	594.79	a.	2.888.5 *		RN/L		4.8 833

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DATE 13 FEB	9 20 10		TAE	TABULATED	9 9	RESSURE	E DAT) - Y	3A148	(AMES	PRESSURE DATA - CAI48 (AMES 11-073-1)	_						PAGE 5957	5957
						MES 1	1-073	10A14	1- (8)	40A/B/C	'R ORB B	700	AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP LWR			(XEBG42)			
ALPHA (3)	H	3.985	BETA	: 5	#	8.292	Σ.	MACH	± .59674	59674	o		594.79	Q.	•	2386.0	RN/L		4.8833
SECTION (1'BODY FLAP LOWER	1 1 8007	FLAP LO	ER.			130	ZUN.	N V	DEPINDENT VARIABLE CP	е С									
X/LB	1.0180	1.0460																	
9H1 .000 40.000	. 2859	0140																	
ALPHA (4)		7.905	BETA	C 13		-7.888		MACH	•	.59644	0		594.20	٥	•	2396.1		•	4.8802
SECTION (1) BODY FLAP LOWER	1) BODY	FLAP LO	MER			ü	Z NOE	N V	DEPENDENT VARIABLE CP	E CP									
X/LB	1.9180	1.0460	i																
9H1 .000 .40.000	.3095	. 0182 . 0248																	
ALPHA (4)	r	7.915	BETA	S .		-3.855		MACH		. 59644	ø		594.20	Q.	•	2386.1	RN/L		4.8 8 02
SECTION (1:800Y FLAP LOWER	13805	FLAP LO	MER			DE	3GN3c	NT VA	DEPENDENT VARIABLE CP	д З									
X/FB	1.0180	1.0460																	
PH1 .500 .54.000	.3051	. 0246 0039																	
ALPHA (4)	có m	8.038	BETA	3		. 180		MACH	n	£1965.	o	n	594.20	۵.		2386.1	3	u	4.8802
SECTION (1)BODY FLAP LOWER	1.19007	FLAP LO	YER.			30	SENDE	N V	DEPENDENT VARIABLE CP	ار ق									
X/LB	1.0180	1.0460																	
PH1 .030 \$0.030	. 1991 1991	.0351																	
ALPHA (4)		8.035	BETA	.		4.244 MACH	E	ACH	т; в	. 59644	o		594.20	۵		2386.1	PN/F	•	4.8802
SECTION (1) BODY FLAP LOWER	13 90DY	FLAP LO	HE H			OE	ZON3.	N V	DEPENDENT VARIABLE CP	G G									
X/LB	1.0:80	1.0460																	
1941 000 40.000	3648	.0192 0608																	

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DATE 13 FEB	3 5		TABL	TABULATED		ESSURE	DATA -	OA1	PRESSURE DATA - DAI48 (AMES 11-072-1)	11-072-	1						α.	PAGE 5958	928
					₹	MES 11.	-073104	148)	AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP LMR	7.R ORB	BODY	FLAP	LER.			(XE8642)			
A. PHA (4) =	8.035	35 BETA	TA	ŝ	н	8.296	8.296 MACH		P4962.	o	*	594.20	20	۵		2386.1	NA.	<i>3</i> *	4.8302
SECTION ()	BODY F	1 BODY FLAP LOWER	œ			DEP	NDENT	VARI	DEPENDENT VARIABLE CP										
X/LB 1	1.0180	1.0460																	
PHI .000 40.000	. 3064	.0161																	
ALPHA (5) =	11.910	10 BETA	1 × 1	=		-7.853	MACH		.59658	ø		594.43	£4	Q.		2385.8		<i>*</i>	4.8825
SECTION (1) BODY FLAP LOWER	BODY FI	AP LOWE	œ			10EP	NDENT	VARI	DEPENDENT VARIABLE CP										
X/LB 1.	1.0180	1.0460																	
PH1 .000 4.3.000	.3311	.0065																	
ALPHA (5) =	11.930	30 EETA	TA	â	#	-3.836	MACH	*	.59658	o	#	594.43	£.	Q.	•	2385.8	RN/L	<i>#</i>	4.8825
SECTION (1)500Y FLAP LOWER	BODY FI	AP LOWE	œ			3430	NDEN	VARI	DEPENDENT VARIABLE CP										
X/LB 1.	1.0180	1.0460																	
9H1 .000 .04	. 3282	.0415																	
ALPHA (5) =	11.966	56 BETA	77	8	#	721.	H;CH		. 59658	•		594.43	ξŧ	۵		2385.8	RNY	<i>‡</i>	4.8825
SECTION (1)BODY FLAP LOWER	BCDY FL	AP LOWE	œ			DEP.	NDENT	VARI	DEPENDENT VARIABLE CP										
X/:3 1.	1.0180	: . C+50																	
PH1 .000 .000	.3318	. 0539																	
ALPHA (5) =	11.976	76 BETA	T A C	7	R	4.252	MACH		.59658	ø		594.43	£4	۵.	•	2385.8	RA/L	£ B	4.8825
SECTION (1) BODY FLAP LOWER	1800Y FL	AP LOWE	œ			3430	NOENT	VAR1/	DEPENDENT VARIABLE CP										
X/LB 1.	1.0:80	1.0460																	
PH1 .000 40.000	. 1721	.0+0+0 0532												i					

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TABULATED PRESSURE DATA - DAINB (AMES 11-073-1) DATE 13 FEB 76 AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP LWR

= 594.43 a 8.318 MACH = .59658 BETA (5) # ALPHA (5) = 12.034

DEPENDENT VARIABLE CP

SECTION (1'BODY FLAP LOWER

1.0180 1.0460 X/LB

.3263 .0396 .1801 -.0520 PHI .000 40.000

RN/L = 2385.8

(XESG42)

PAGE 5959

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(XEBG+3)	
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PARAMETRIC DATA	RUDDER = .000 SPDBRK = 55.000 BDFLAP = 22.500 L-ELVN = 10.000 R-ELVN = 10.000 MACH = .900	598.79 P = 1060.9 RN/L = 3.6697				598.79 P = 1050.9 RN/L = 3.6697				598.79 P = 1060.9 RN/L = 3.6697				597.91 P = 1062.1 RN/L = 3.5+86			
						•								•			
		O				0				O				O			
	1076.6800 IN. XO .0000 IN. YO 375.0000 IN. ZO	-3.850 MACH = .99793	DEPENDENT VARIABLE CP			.187 MACH = .89793	DEPENDENT VARIABLE CP			4.272 MACH = .89793	DEPENDENT VARIABLE CP			-3.865 MACH89677	DEPENDENT VARIABLE CP		
REFERENCE DATA	SREF = 2690.0000 SO.FT. XMRP = 1071 LREF = 474.6030 IN. YMRP = 579 GREF = 936.0580 IN. ZMRP = 579 SCALE = .0330	ALPHA (1) = -4.070 BETA (1) =	SECTION (1)BODY FLAP LONER	X/LB 1.0180 1.0460	PHI .000 .4165 .2123 40.000 .3089 .1277	ALPHA (1) = -4.069 BETA (2) =	SECTION (1380DY FLAP LOWER	X/LB 1.0;80 1.0460	FH1 .00\$.4396 .2273 .00.00\$.3064	ALP44 (1) = -4.079 BETA (3) =	SECTION : 1780DY FLAP LOWER	X/LB 1.0185 1.0450	РН1 . 93¢ . 4022 . 207! 40.00¢ . 3274 . 1926	ALPMA (2) =029 BETA (1) =	SECTION (1) BODY FLAP LOWER	X/LB 1.0180 1.0460	PH: 0100 - 4032 - 2110 00.000 - 4018 - 1421

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DATE 13 FEB 76 TABULATED PRES	TABULATED PRESSURE DATA - OA148 (AMES 11-073-1) AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP LWR	-073-1)	FLAP LUR		(XEBG43)		PAGE 5961	1969
								;
ALPHA (2) =015 BETA (2) =	.186 MACH = .89677	•	597.91	۵	* 1062.1	RN/L		3.6486
SECTION (1:BODY FLAP LOWER	DEPENDENT VARIABLE CP							
X/LB 1.0180 1.0460	J							
PHI . 000 . +조도 2186 . +0.000 . 33521175					-			
ALPHA (2) =321 BETA (3) = 4	4.247 MACH = .89677	•	597.91	۵	1062.1	FAV.	•	3.6486
SECTION (1) BODY FLAP LOWER	DEPENDENT VARIABLE CP							
X/LB 1.0180 1.0450								
PH1 . 000 . 3956 . 2085 . 000 . 04.								
ALPHA (3) = 3.931 BETA (1) = -3	-3.870 MACH = .89577	•	597.91	۵	- 1062.1	RN/L		3.5364
SECTION (1:300Y FLAP LOWER	DEPENDENT VARIABLE CP							
X/LB 1.0180 1.0450								
PHI 000. 040.000 040.000 040.000								
ALPHA (3) = 3.931 BETA (2) =	.185 MACH = .89677	•	597.91	۵	• 1062.1	RN/L		3.6364
SECTION (1:800Y FLAP LOWER	DEPENDENT VARIABLE CP							
X/LB :.018C :.0460								
PH1 .000 .4709 .2341 40.000 .3778 .1281								
ALP4A (3) = 3.933 BETA (3) = 4	4.242 MACK = .69677	•	597.91	٥.	• 1062.1	RN/L		3.636+
SECTION (1)BG3Y FLAP LOWER	DEPENDENT VARIABLE CP							
X/LB 1.0:80 1.0460								
PHI .000. .000. .000. .3555. .1043								

DATE 13 FEB 76 TABULATED	TABULATED PRESSURE DATA - OA148 (AMES 11-073-1)			PAGE 5962
	AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP LWR	LIMB	(XEBGH3)	
ALPHA (4) = 7.998 BETA (1) =	-3.856 MACH = .89613 Q = 597.48	a 84.	• 1062.9	FN/L = 3.6207
SECTION (1) BODY FLAP LOWER	DEPENDENT VARIABLE CP			
X/LB 1.0180 1.0460				
PHI .000 .5201 .2485 .0000 .4512 .1556				
ALPHA (4) = 8.005 BETA (2) =	.180 MACH = .89613 Q = 597.48	9 B4.	• 1052.9	RN7L = 3.5207
SECTION (1) BODY FLAP LOWER	DEPENDENT VARIABLE CP			
X/LB 1.0'90 1.0460				
FH: . 500 . 5212 . 2493 . 46.600 . 4.185 . 1367				
ALPHA (4) + 8.004 BETA (3) =	4.244 MACH = .89513 0 = 597.48	q 84.	• 1062.9	RN/L = 3.5207
SECTION (1)BODY FLAP LOWER	DEPENDENT VARIABLE CP			
X/28 1.0:80 1.0460				
FHI .500 .5245 .2497 +0.005 .3978 .1059				
ALPHA (5) = 11.977 BETA (1) =	-3.853 MACH = .89753 0 = 598.50	.50 P	₽ 1051.4	RN/L = 3.5129
SECTION (1) BODY FLAP LOWER	DEPENDENT VARIABLE CP			
X/LB 1.0180 1.0450				
749 1872 - 5555 - 600 1875 - 600 1875 - 600				
ALPHA (5) = 11.989 BETA (2) =	.:82 MACH = .89753 0 = 598.50	.50 P	# 1061.4	RN/L = 3.5129
SECTION (1) BODY FLAP LOWER	DEPENDENT VARIABLE CP			
X/LB 1.0180 1.0450		•	1	
149 . 000 . 5564 . 2543 . 000.04				

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PAGE 5963	(XEBGH3)	4 RN/L = 3.5129			
	(XEB	+ 1051.4			
		•			
		۵			
	FLAP LWR	598.50			
	BODY	*			
1-073	R ORB	o			
PRESSURE DATA - 0A148 (AMES 11-073-1)	AMES 11-07310A148) -140A/B/C/R ORB BODY FLAP LWR	4.261 MACH = .89753	DEPENDENT VARIABLE CP		
0A146	148)		VARIA		
DATA -	07310A	MACH	NDENT		
PRESSURE 1	AMES 11-	4.261	DEPE		
TABULATED		3) #			
TABU		BETA (3)	E3		
			AP LOW	08.0	. 2348 . 0943
		11.978	30Y FL	1.0180 1.0.30	5590 3957
EB 76		÷ (5	8:1]		• •
DATE 13 FEB 76		ALPHA (5) =	SECTION (1:800Y FLAP LOWER	X/LB	PH1 .000 +0.000

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DATE 13 FEB 76

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(XEBGH) (DS AUG 75)	PARAMETRIC DATA	RUDDER = .000 SPORK = 55.000 BDFLAP = 22.500 L-ELVN = 10.000 R-ELVN = 10.000 HAQH = .600	P = 2387.2 (RN/L = 4.884.0		987.2 AN.L = 4.8840				P = 2387.2 Rev. = 4.9840				p = 2387.2 RN/L = 4.8640			
AMES :1-07310A148) -140A/B/C/R ORB BODY FLAP LUR		œ a c		ප	.59510 0 * 593,75	65			.59510 0 = 593.75	ප			.59610 0 = 593.75	d)		
AMES :1-073(0A148) -140	REFERENCE DATA	SG.FT. XMRP = 1076.6890 IN. XO IN. YMRP = .0000 IN. YO IN. ZMRP = 375.0090 IN. ZO	A (1) = -7.850 MACH =	DEPENDENT VARIABLE	 BETA (2) = -3.842 MACH =	DEPENDENT VARIABLE	1.0469	. 0959 . 0473	BETA (3) = .188 MACH =	DEPENDENT VARIABLE	1.0460	.1077 .033 0	BETA (4) = 4.269 MACH =	FLAP LOWER DEPENDENT VARIABLE CP	1.0460	. 0983 . 0584
	REFEREN	SAEF = 2690.0000 SG LREF = 474.8000 IN. BAEF = 935.0680 IN. SCALE = 0.0300	ALPHA (1) # -4.010	TION 1 13800Y F	 ALPHA (1) = -3.95+	SECTION (1) BODY FLAP LOWER	X/LB 1.0180 1.	PHI . 000 .3532 . . 000.04	ALPHA (1) = -3.985	SECTION (1) BODY FLAP LOWER	X/LB 1.0180 1.0	1Hd . 3793 . 3793	ALPHA (1) = -3.992	SECTION (1:800Y FLAS	X/LB 1.0'80 1.0	189 000. 10.00. 10.000.04

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DATE

TABULATED FRESSURE DATA - DATHE (AMES 11-073-1)

PACE ESSS

4.8783 F.83 Ž N. T. Z È Ž (XEBGH#) 2387.2 2386.1 2386. 2366. 2386.1 AMES 11-07310A148) -140A/B/C/R ORB BODY FLAP LWR 593.96 593.96 593.96 593.96 a Œ C 8.349 MACH = .59610 .55632 -7.986 MACH * .59632 .192 MACH = .59632 4.248 TACH = .59632 DEPENDENT VARIABLE CP MACH -3.866 1 1 # (2) # (*) ر ري .039 BETA 5577A ± 0+9 9£TA BETA ALPHA (2) = .053 BETA SECTION (1180DY FLAP LOWER SECTION (11BODY FLAP LOWER SECTION (1) BODY FLAP LOWER SECTION / LIBODY FLAP LOWER SECTION (1:BODY FLAP LOWER 1.0180 1.0460 .3946 .1053 .3445 .0940 1.0180 1.0460 1.0180 1.0460 .3450 .0947 .2436 .-. 0014 1.0180 1.0460 .3732 .0959 .2815 .0392 09+0.1. 0810.1 ALPHA (1) # -4,007 . 3555 . 3236 . 2629 ALPHA (2) = 000.04 000.04 ALPHA (2) ALPHA (2) 40.000 .000 40.000 . 633 40.083 .000 40.900 א/ורם E7/X X/LB X/LB X/LB

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					AME	0-11 9	73(0A)	1 (6)	AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP LMR	R ORB	YGOS	LAP LWR			(XEBGH4)			
ALPHA (2)		3 440.	BETA	(3)		8.307	MACH	u	.59632	0		593.96	٥.	ĕ #	2386.1	1	j I	4.8783
SECTION (1) BODY FLAP LOWER	1)8004	FLAP LO	HI'R			DEPEN	DEPENDENT VARIABLE CP	AR1/B	LE CP									
X/LB	1.0180	1.0460																
PH1 .000 40.000	.3878	.1070																
ALPHA (3)	M	3.960	BETA	- (1)		-7.902	MACH	•	.5969¥	0	•	595.02	۵	ຄິ •	2385.4	1/N2	j j	4.8785
SECTION (1)BODY FLAP LOWER	1)B0DY	FLAP LO	HER.			DEPEN	DEPENDENT VARIABLE CP	ARIABI	רב כם									
X/LB	1.0180	1.5460																
PH1 .000 40.000	.3566	.1110 2020.																
ALPHA (3)	и Ж	3.964	BETA	(5) =		-3.864	MACH	đ	.59€94	o		595.02	۵	ຄິ *	2385.4	FN/L	<i>;</i>	4.3785
SECTION (YC08: 1	1:803Y FLAP LOWER	ÆR.			DEPEN	DEPENDENT VARIABLE CP	ARIABI	E CP									
X/LB	1.0130	1.0450																
PHI 000.04	.3987	. 1061 . 0524																
ALPHA (3)	= W.	3.969 E	BETA	(3) =	•	. 189	MACH		£969#	o		595.02	۵	1	2385.4	FN.	; ;	4.8785
SECTION (1)BODY FLAP LOWER	1.1B0DY	FLAP LOS	ÉR.			DEPEN	DEPENDENT VARIABLE CP	AR I ABI	LE CP									
X/LB	1.0180	1.0460																
PH1 :000 +0:000	. 3970 . 3020	.1093 .6415																
ALPHA (3)	3.0	3.972	BETA	# ?		4.243	MACH		.59594	G		595.02	۵	હ્યું •	2385.4	RN/L	; ;	4.8785
SECTION (1)BODY FLAP LOWER	1.800Y	FLAP LO	ER.			DEFT	DEFENDENT VARIABLE CP	AR I ABL	E CP									
X/LB	1 0180	1.0460																
PH1 .000 45.000	.4118 .2854	.1142											,					

DATE 13 FEB 76 TABULATED PRESSURE DATA - DAI48 (AMES 11-073-1)			. PAGE	PAGE 5967
AMES 11-073(0A148) -140A/9/C/R ORB BODY FLAP LMR	P LMR	(XEBG##)	•	
ALPHA (3) = 3.982 BETA (5) = 8.290 MACH = .59694 Q = 59	595.02 P	₹ 2385.4	RN/L	4.8785
SECTION (1:80DY FLAP LOWER DEPENDENT VARIABLE CP			-	
X/LB :.0190 1.0450				
PHI .000 .4213 .1170 40.000 .2731 .0122				
ALFHA (4) = 8.025 BETA (1) = +7.890 MACH = .59616 0 = 56	593.73 P	= 2386.3	RN/L .	4.8652
SECTION (1) BODY FLAP LOWER DEPENDENT VARIABLE CP				
X/LB 1.0180 1.0460				
PHI				
ALPHA (4) = 8.036 BETA (2) = -3.859 MACH = .59616 0 = 56	593.73 P	= 2386.3	RN/L =	4.8652
SECTION (1) BODY FLAP LOWER DEPENDENT VARIABLE CP				
X/LB 1.0180 1.0460				
F41 .000 .4312 .1240 40.000 .3478 .0686				
4LPHA (4) = 8.040 BETA (3) = .178 MACH = .59516 0 = 56	593.73 P	= 2386.3	RN/L .	4.8652
SECTION (1) SODY FLAF LOWER DEPENDENT VARIABLE CP				
X/LB 1.0180 1.0460			1	
PH1 .000 . 4383 . 1243 40.000 . 3287 . 0557				
ALPHA (4) = 8.039 BETA (4) = 4.241 MACH 1. 59616 0 = 56	593.73 P	- 2386.3	RN/L *	4.8652
SECTION (1) BODY FLAP LOWER DEPENDENT VARIABLE CP			r	
X/LB 1.0180 1.9450				
PH1 .000 .4376 .1264 40.000 .3125 .0395				

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DATE 13 FEB 76 TABULATED ALPHA (4) = 8.038 BETA (5) =	TABULATED PRESSURE DATA - 0A148 (AMES 11-073-1) AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP LNR A (5) = 8.285 MACH = .59616 0 = 593.73 P	PAGE 5968 (XE8G44) = 2386.3 RN/L = 4.8652
SECTION (1)BODY FLAP LOWER X/LB 1.0180 1.0450 PHI .000 .4390 .1202 40.000 .2854 .0102	DEPFINGENT VARIABLE CP	
ALPHA (5) = 12.021 BETA (1) = SECTION (1)BODY FLAP LOWER X/LB 1.0180 1.0460 PHI .000 .4676 .1355 40.000 .3749 .0853	-7.852 MACH = .59616 Q = 593.74 P DEPENDENT VARIABLE CP	• 2386.7 RN/L • 4.8654
ALPHA (5) = 11.932 BETA (2) = SECTION (1)BODY FLAP LOWER X/LB 1.0180 1.0460 PHI .002 .4614 .1318 +0.003 .3599 .0674	-3.840 MACH = .59616 Q = 593.74 P DEPENDENT VARIABLE CP	= 2386.7 RN/L = 4.8654
ALPHA (5) = 11.946 BETA (3) = SECTION (1)BODY FLAP LOWER X/LB 1.0180 1.0460 PHI .000 .4615 .1355 40.000 .3434 .0532	.176 MACH = .59616 Q = 593.74 P	= 2386.7 RN/L = 4.8654
ALPHA (5) = 11.941 BETA (4) = SECTION (1)BODY FLAP LONER X/LB 1.0180 1.0460 PH1 .1316 +0.000 .4641 .1316	4.247 MACH * .59616 Q = 593.74 P	* 2386.7 RN/L * 4.8654

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(XEBGHA)

593.74

.59616

MACH

8.307

BETA (5)

ALPHA (5) = 11.928

DATE 13 FEB 76

SECTION (1) BODY FLAP LOWER

1.0180 1.0460

X/LB

.2961

000.04 000.04

TABULATED PRESSURE DATA - 0A148 (AMES 11-073-1)

DEPENDENT VARIABLE CP

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AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP LWR

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John Christianski Salam († 1864 1945)

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55.000 4.000 3.644] 3.6441 SPDBRK = L-ELVN = MACH = RNY SE L PN/L PARAMETRIC DATA - 1061.9 1061.9 1061.9 1061.9 .000 22.500 4.000 RUDDER = BDFLAP = R-ELVN = ۵. AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP LW. 597.89 537.89 597.89 597.56 ø O O .89683 .89683 -3.868 MACH = .89650 DEPENDENT VARIABLE CP DEPENDENT VARIABLE CP DEPENDENT VARIABLE CP -3.852 MACH = MACH MACH * 1076.6800 IN. XO * .0000 IN. YO = 375.0000 IN. ZO . 188 4.270 ALPHA (1) = -3.961 BETA (1) = ----3) # ລິ ALPHA (2) = .010 BETA **BETA** ALPHA (1) = -3.942 BETA REFERENCE DATA SECTION (1)BODY FLAP LOWER SECTION (1) BODY FLAP LOWER SECTION (1)BODY FLAP LOWER 2690.0000 SQ.FT. 474.8000 IN. 936.0580 IN. . 2155 . 1181 1.0180 1.0460 1.0180 1.0450 .3877 .2122 .3152 .1042 1.0180 1.0460 ALPHA (1) = -3.932 .4321 .2915 .408**6** .2661 PH1 .000 +0.000 40.000 .000 40.000 SCALE = X/LB X/LB X/LB

DEPENDENT VARIABLE CP

SECTION (1) BODY FLAP LOWER

1.0180 1.0460

X/LB

3930

.000 40.000

DATE 13 FEB 76 TABULATED P	TABULATED PRESSURE DATA - OAI48 (AMES 11-073-1)	-073-1)				۵	PAGE 5971	176
	AMES 11-073(04148) -140A/B/C/R ORB BODY FLAP LWR	ORB BODY FLAP	E E		(XEBG45)			
41.PHA (2) = .025 BETA (2) =	.185 MACH = .89660	0 = 597.56	.56 P	r	1061.9	RN/L	m m	3.6228
SECTION (1) BODY FLAP LOWER	DEPENDENT VARIABLE CP							
X/LB 1.0180 1.0460								
PHI .000 .4226 .2242 .000 .3067 .1187								
ALPHA (2) = .019 BETA (3) =	4.247 MACH * .89660	0 = 597.56	.56 P	•	1061.9	RN/L	N)	3.6228
SECTION (1) BODY FLAP LOWER	DEPENDENT VARIABLE CP							
X/LB 1.0180 1.0460								
PH1 .000 .3926 .2154 .00.000 .3057 .1003								
ALPHA (3) = 3.946 9ETA (1) =	-3.873 MACH = .89837	0 = 599.08	90	•	1060.5	RN/L	M M	3.6099
SECTION (1)BODY FLAP LOWER	DEPENDENT VARIABLE CP							
X/LB 1.0180 1.0460								
PHI .000 .4509 .2355 40.000 .3730 .1406								
ALPHA (3) = 4.002 BETA (2) =	.184 MACH = .89837	0 = 599.08	90 P	•	1060.5	RN/L	M H	3.6099
SECTION (1) BODY FLAP LOWER	DEPENDENT VARIABLE CP							
X/LB 1.0180 1.0460								
PH1 .000 .4529 .2354 .0000 .3477 .1205								
ALPHA (3) = 3.937 BETA (3) =	4.239 MACH = .89837	0 = 599.08	90 P	•	1060.5	RN/L	m *	3.6099
SECTION (1) BODY FLAF LOWER	DEPENDENT VARIABLE CP						,	
X/LB 1.0180 1.0460								
PH1 .000 .4599 .2415 40.000 .3366 .1034								

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DATE 13 FEB 76 TABULATED PRESSURE DATA - 0A148 (AMES 11-073-1) AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP LMR	3-1) 3 BODY FLAP LWR = 508 50				1.4
1)BODY FLAP LOWER DEPENDENT VARIABLE CP	00.85C #		¥. 1061.¥	RN/L	* 5.5957
900					
ALPHA (4) = 7.979 BETA (2) = .177 MACH = .89753 Q SECTION (1)BODY FLAP LOWER DEPENDENT VARIABLE CP	s 598.50	<u>.</u>	• 1061.4	RN/L	3.5937
X/LB 1.0190 1.0460 PH1					
ALPHA (4) = 7.978 BETA (3) = 4.243 MACH = .89753 Q SECTION (1)800Y FLAP LOWER DEPENDENT VARIABLE CP	598.50	a .	1061.4	RN/L	3.5937
ALPHA (5) = 11.950 BETA (1) = -3.856 MACH = .89553 0 SECTION (1)80DY FLAP LOWER DEPENDENT VARIABLE CP	± 597.97	• a.	1062.9	RN/L	3.5856
PH1 .000 .5549 .2587 .0.000 .4330 .1444 ALPHA (5) = 11.961 BETA (2) = .178 MACH = .89653 0	597.97	• •	1062.9	RN/L	3.5856
SECTION (1) BODY FLAP LOWER DEPENDENT VARIABLE CP X/LB 1.0180 1.0460 PH1 C 000 .5591 .2590					
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DATE 13 FEB 76

TABULATED PRESSURE DATA - DA148 (AMES 11-073-1)

AMES 11-073(6,1148) -140A/B/C/R ORB BODY FLAP LWR

597.97 ø 4.259 MACH = .89653 ALPHA (5) = 11.950 BETA (3) =

DEPENDENT VARIABLE CP

SECTION (1780DY -LAP LOWER

1.0180 1.0460 X/LB

. 2662 . 1082 .5585 PHI .000 40.000

1062.9

(XEBG45)

= 3.5856 ₹.Y.

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TABULATED PRESSURE DATA - OAI+8 (AMES 11-073-1)

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(XE8G46) (05 AUG 75) AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP LWR

DATE 13 FEB 76 TAB	TABULATED PA	PRESSURE DATA - 0A148 (AMES :1-073-1)			,	PAGE 5975
		AMES 11-073(04148) -1404/B/C/R ORB BODY FLAP LUR	οc	(XEBGHB)		
ALPHA (1) = -3.973 PETA	= (S)=	8.335 MACH = .59592 0 = 593.39	Q.	* 2387.4	RN/L	■ 4.8518
SECTION (1) BODY FLAP LOWER		DEPENDENT VARIABLE CP				
X/LB 1.0180 :.0460						
PHI .000 .3324 .0905 .01.00 .0136						
ALPHA (2) = .060 BETA	1 1	-7.888 MACH = .59634 Q = 594.08	۵	= 2386.3	RN/L	£7.8.4
SECTION I 13BODY FLAP LOWER		DEPENDENT VARIABLE CP				
X/LB 1.0180 1.0460						
PH1 .000 .3855 .1009 .000.04						
ALPHA (2) = .070 95TA	(S) =	-3.865 MACH = .59634 Q = 594.08	۵	= 2386.3	FN/L	# 4.0479
SECTION (1) BODY FLAP LC VER		DEPENDENT VARIABLE CP				
X/LB 1.0180 1.0460						
PHI .000 .3598 .0968 . 40.000 .2869 .0416						
ALPHA (2) = .070 BETA	(3) =	.181 MACH = .59534 Q - 594.08	۵	= 2386.3	SN/L	■ 4.8479
SECTION (1) BODY FLAP LOWER		DEPENCENT VARIABLE CP				
X/L9 1.0180 1.0450						
FHI .000 .3704 .0996 .0.000 .2555 .0199						
ALPHA (2) = .059 BETA	# (}	4.248 MACH * .59634 Q * 594.08	۵.	= 2386.3	RN/L	u9479
SECTION 1 11BODY FLAP LOWER		DEPENDENT VARIABLE CP				
X/LB 1.0180 1.0450						
PHI .000 .3651 .1037 40.000 4755. 0006						

	AM	S 11-0,	7310A14	9.	AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP LMR	R ORB BO	□	LAP LWR			(XEBGH2)				
ALPHA (2) = .063 BETA (5) =		8.306	MACH		.59634	o		594.08	a.		2386.3	RN/L	# #	4.04.40	
SECTION (1) BODY FLAP LOWER		DEPEN	DEPENDENT VARIABLE CP	RIABL	E CP										
X/LB 1.0180 1.0460															
1001. 3839 .1001 00.04. 1555. 000.04															
ALPHA (3) = 4.012 BETA (1) =	'i'	-7.901	MACH		.59704	a		595.39	Q.	,	2386.0	FSV/L	<i>3</i>	4,8459	
SECTION (1) BODY FLAP LOWER):3d30	DEPENDENT VARIABLE CP	ZI ABL	E CP										
X/LB 1.0183 1.0460															
PH) .000. .000.04 .000.00															
ALPHA (3) = 4.016 BETA (2) =	F)	-3.862 MACH	MACH		.59704	0		595.39	a .		2386.0	RN/L	<i>3</i> *	t. 19459	
SECTION (1) BODY FLAP LOWER		DEPEN	DEPENDENT VARIABLE CP	RI ABL	e G J										
X/LB 1.0180 1.0460															
PHI . 3976 . 1037 . 000 . 0488															
ALPHA (3) = 4.027 BETA (3) =		191	MACH		.59704	o		595.39	۵		2386.0	FN/L	<i>3</i>	4.8489	
SECTION (1) BODY FLAP LCHER		DEPEN	DEPENDENT VARIABLE CP	3 I ABL	E CP										
X/LB 1.0189 1.0460													٠		
PHI .000 .39+3 .1103 +0.000 .0755. 0259														,	
ALPHA (3) = 4.030 BETA (4) =		4.239	MACH		.59704	o		595.39	۵		2386.0	7.86	#	4.8459	
SECTION (1) BODY FLAP LOWER		DEPEN	DEPENDENT VARIABLE CP	RIABL	ir CP										
X/LB 1.0:80 1.0+50															
PH1 .050 .4021 .1136 40.669 .2590 .0085															

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TABULATED PRESSURE DATA - DAIWB (AMES 11-073-1)

DATE 13 FEB 76

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DATE 13 FEB 76 TABULATED PRE	PRESSURE DATA - OAI48 (AMES 11-073-1)	11-073-1				į	α.	PAGE 5977	E
	7310A14 21011	77 ORB B(DY FLAP LWR	c	•	(XEBG45)	2	1	0 4 0
ALPHA (3) = 4.055 BE A (5) = SECTION (1) BODY FLAP LOWER	B.CBB MACH = .59/04 DEPENDENT VARIABLE CP	3	85.090 =	L		r 980 . u	ra'r		n
X/LB 1.0;80 1.0960									
PHI .000 .4131 .1104 .000 .2496 .0024									
ALPHA (4) = 7.996 BETA (1) = -	-7.892 MACH = .59670	o	= 594.93	۵		2387.1	1/2	# #	¥.94.30
SECTION (1)BODY FLAP LOWER	DEPENDENT VARIABLE CP								
X/L8 ;.0180 1.0460									
PHI .000. .000. .000.04									
ALPHA (4) = 8.007 BETA (2) = -	-3.861 MACH = .59570	ø	■ 594.93	a.		2387.1	E	B).	£.9£30
SECTION (1) BODY FLAP LOWER	DEPENDENT VARIABLE CP								
X/L8 :.0180 1.0460									
PHI .COJ. .COJ. .COJ. .COJ.									
ALP4A (4) = 6.012 BETA (3) =	.176 MACH = .59670	o	= 55,.93	۵		2387.1	PSV/L	# #	4.8410
SECFION (1) BODY FLAP LOWER	DEPENDENT VARIABLE CP								
X/L9 1.0183 1.0460									
1H9 .000. .000.04 .000.04									
ALPHA (4) = 8,012 BETA (4) =	4.240 MACH = .59670	0	= 594.93	۵		2387.1	1/18	# #	¥.9
SECTION (1) BODY FLAP LOWER	DEPENDENT VARIABLE CP								
X/LB 1.9180 1.0460									
PHI .000 .4306 .1229 40.055 .781 .0133									

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	AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP LWR	/R ORB BODY FLAP LINR	ü	(XEBC#6)	
ALPHA (4) = 8.009 BETA (5) =	8.293 MACH * .59670	0 = 594.93	# d	2387.1 RN/L	1. # 4.841D
SECTION (1) BODY FLAP LOWER	DEPENDENT VARIABLE CP				
X/LB 1.0180 1.0460					
PHI .C00 .4355 .1194 .C00.004					
ALPHA (5) = 11.987 BETA (1) =	-7.852 MACH = .59592	0 - 595.28	P = 23	2385.8 RW/L	1.8363
SECTION 1 13BODY FLAP LOWER	DEPENDENT VARIABLE CP				
X/LB 1.0180 1.0450					
H9 4221. 2524. 000. 000.04					
ALPHA (5) = 12.008 BETA (2) =	-3.842 MACH = .59692	0 = 595.28	852 *	1/Ne 8.385.5	1 * 4.8353
SECTION (1) BODY FLAP LOWER	DEPENDENT VARIABLE CP				
X/LB 1.0:80 1.0%50					
1Hd . 000 . 4569 . 1342 . 000 . 3373 . 555					
ALPHA (5) * 12.016 BETA (3) *	.174 MACH = .59692	0 * 595.28	P = 2386.3	6.3 PAVL	. * 4.8363
SECTION (1)BODY FLAP LOWER	DEPENDENT VARIABLE CP				
X/LB 1.0180 1.0450					
PH: C00 .4589 .1375 46.600 .3211 .C524					-
ALP44 (5) = 11.917 BETA (4) =	4.245 MACH = .59592	0 = 595.28	P = 2386.9	5.9 REV.	# 4.8353
SECTION (11803Y FLAP LOWER	DEPENDENT VARIABLE CP				<i>-</i> -
X/L8 1.0180 1.0450					
PH! .000 .4627 .1359 40.000 .2662 .0216					

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TABULATED PRESSURE DATA - DAIMB (AMES 11-073-1)

DATE 13 FEB 76

(XEB345)

ANCS 11-073(04148) -140A/B/C/R ORB BODY FLAP LLAR 8.309 MACH = .59592 DEPENDENT VARIABLE CP ALPH4 (5) = 11.904 BETA (5) = SECTION (1) BODY FLAP LOWER

.1334 .0034

.4583

641 .000 40.000

0.0180 1.0450

X/LB

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EN/L # 4.8363

2335.8

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(XE8G47) (05 AUG 75)	PARAMETRIC DATA
AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP LMR	•
	REFERENCE DATA

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	AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP LWR	DA/B/C/R OR	BODY FLAP LWR		CXEB	(XE8G47)		
ALPHA (4) = 7.853 BETA (;)	= -3.871 MACH =	1.3954 0	* 600.24	Q.	- 440.41	1 RN/L	8-26.5	æ
SECTION (1'BODY FLAP LOWER	DEPENDENT VARIABLE CP	8						
X/LB 1.0180 1.0460								
PHI .000 .4493 .4011 40.000 .3699 .2635								
ALPHA (4) = 7.994 BETA (2)	. 174 MACH = 1.3954	D +561	- 600.2 ₩	۵	- 440.41	1 FRV/L	- 2.9228	æ
SECTION (1) BODY FLAP LOWER	DEPENDENT VARIABLE CP	5						
X/LB 1.0180 1.0460								
PH1 .000 .44.39 .3917 .40.000 .3470 .2516								
ALPHA (4) = 7.994 BETA (3)) = 4.239 MACH = 1.3954	0 +56	* 600.24	۵.	140.41	RN/L	= 2.9228	χο
SECTION (1)BODY FLAP LOWER	DEPTINDENT VARIABLE CP	8						
X/LB 1.018C 1.0450								
PH1 . CGO . 4488 . 3978 40. CGO : 3304 . 2536								
ALPHA (5) # 11.867 BETA (1)	-3.858 MACH * 1.2955	955 0	• 609.34	۵.	440.41	FN/L	= 2.9245	ľÙ
SECTION (1)BODY FLAP LOWER	DEPENDENT VARIABLE CP	85						
X/LB 1.0180 1.0460								
PH1 .000 .5585 .4648 .000.00								
ALPHA (5) = 11.873 BETA (2)	= .176 MACH = 1.3955	955 0	* 600.34	Q.	- 440.41	RN/L	* 2.9245	ro O
SECTION (1)BODY FLAP LOWER	DEPENDENT VARIABLE CP	8						
X/EB 1.0180 1.0460								
PH1 .000 .5520 .4536 40.000 .4255 .3050				;				

DATE 13 FEB 76 TABULATED	TABULATED PRESSURE DATA - OAI48 (AMES 11-073-1)		٠	PAGE 5983
	AFES 11-073(0A148) -140A/B/C/R ORB BODY FLAP LWR	S LHR	(XEBG#7)	
ALPHA (5) = 11.868 BETA (3) =	* 4.257 MACH * 1.3955 0 * 600.34	0.34 P	440.41	RN/L = 2.9245
SECTION (1)BODY FLAP LOWER	DEPENDENT VARIABLE CP	• • •		
X/LB 1.0180 1.0450				
PHI .000. .000.04 .1515. 1814. 000.04				
ALPHA (6) = 15.839 BETA (1) =	-3.834 MACH = 1.3943 0 =	600.32 P	- 441.12	RN/L = 2.9229
SECTION (1) BODY FLAP LOWER	DEPENDENT VARIABLE CP			
X/LB 1.0180 1.0460				
PH1 .000 .6551 .5225 +0.000 .+953 .3355				
ALPHA (6) = 15.851 BETA (2) =	= .174 MACH = 1.3943 Q = 600	600.32 P	= 441.12	RN/L = 2.9229
SECTION (1)BODY FLAP LOWER	DEPENDENT VARIABLE CP	-		
X/LB 1.0180 1.0450				
PH1 .000 .6532 .5241 40.000 .5002 .3517				
ALPHA (6) = 15.843 BETA (3) =	= 4.283 MACH = 1.3943 0 = 600.32	.33 P	- 441.12	RN/L = 2.9229
SECTION (1)BODY FLAP LCHER	DEPENDENT VARIABLE CP			
X/LB\ 1.0180 1.0460				
PH1 .000 .6534 .5255 40.000 .4929 .3681				

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PAGE

(XEBG4B) (05 AUG 75)	
AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP LMR	

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	REFE	REFERENCE DATA	DATA												PAR	PARAMETRIC DATA	DATA		
SAEF = 266 LREF = 47 BREF = 93	2690,0000 474,8000 936,0680	Sa.FT.	YMRP YMRP ZMRP	8 8 B	10. W	1076.6800 1000.375.0000	IN. XO IN. XO 2 YO	999						RUDDER = BOFLAP = R-ELVN =		-10.000 16.300 4.000	SPOBRK # L-ELVN # MACH #	Β → −	85.000 4.000 1.250
ALPHA (1)	; ;	-4 . O.24	BETA	=======================================	#	-3.849	MACH		-	1.2475	o		600.37	۵		551.11	RN/L	e E	3.02+1
SECTION (1) BODY FLAP LOWER	1)8007	FLAP LI	DWER			0EP6	NDEN	DEPENDENT VARIABLE CP	IABL	E CP									
X/LB	1.0180	1.0463	6																
PH1 .600 40.000	. 0742	. 1837 . 0357	,																
ALPHA (1)	T	-4.005	BETA	9		. 189	MACH			1.2475	ø	#	600.37	۵.		551.11	RN/L	m	3.0241
SECTION (1)BODY FLAP LOWER	11800	FLAP LI	OWER			DEPE	NOEN	DEPENDENT VARIABLE CP	1 ABL	E CP									
X/LB	1.0180	1.0450	0																
PHI 000.04	.21 0 4 .0766	. 1996	മമ																
ALPHA (1)	÷ 11	-4.015	BETA	3		4.273	MACH			1.2475	0		600.37	۵.		551.11	RN/L	m M	3.0241
SECTION (1) BODY FLAP LOWER	1.3B0DY	FLAP LI	OWER			20 20 20	ENDEN	DEPENDENT VARIABLE CP	IABLI	E CP									
X/LB	1.0180	1.0450	0																
000:04 000:04	11121	. 1768 . 0547	87															•	
ALPHA (2)		-012	BETA	=		-3.869	ĭ	MACH		1.2460	ø		26.665	۵		552.04	FBV/L	m M	3.0247
SECTION (1)BODY FLAP LOWER	1.08007	FLAP L	OMER.			OEP	NEW	DEPENDENT VARIABLE CP	IABL	e CP FE									
x/L9	1.0180	1.0460	0																
PH1 .000 .40.000	. 1687	.1111	9 ~																

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DATE 13 FEB 76 TABULATED F	TABULATED PRESSURE DATA - OAI48 (AMES 11-073-1)	1148 (AMES 1	1-073-1	_				•	۵	PAGE 5985	382
	AMES 11-073(UAT:8) -140A/B/C/R ORB BODY FLAP LMR	11 -140A/B/C/I	R 0RB BC	0 √ FL	AP LMR		CXE	(XEBG#B)			
ALPHA (2) = .020 BETA (2) =	. 189 MACH	= 1.2450	0	Ħ,	599.92	Q.	= 552.04		RN/L	M	3.0247
SECTION (1'80DY FLAP LOWER	DEPENDENT VARIABLE CP	HABLE CP									
X/LB 1.0180 1.0460											
PHi .000 .2804 .2355 40.030 .1457 .0781	٠										
ALPHA (2) = .014 SETA (3) =	4.249 MACH	■ 1.2460	0	и,	599.92	٥	= 552.04		FBN/L	1 0	3.0247
SECTION (1)BODY FLAP LOWER	DEPENDENT VARIABLE CP	IABLE CP									
X/LB 1.0180 1.0460											
PH1 .000 .2603 .2237 40.000 .1631 .0829											
ALPHA (3) = 3.95; BETA (1) =	-3.873 MACH	= 1.2462	ø		600.16	۵.	± 552.05		RN/L	m M	3.02 <i>b</i> 2
SECTION (1:500Y FLAP LOXER	DEPENDENT VARIABLE CP	IABLE CP									
X/LB 1.0180 1.0450											
PHI .000 .3715 .3022 90.004 .2685 .1845											
ALPHA (3) = 3.550 BETA (2) =	. 185 MACH	= 1.2462	o		600.16	۵	= 552.05		FW/L	M H	3.0262
SECTION (1) BODY FLAP LOWER	DEPENDENT VARIABLE CP	IABLE CP									
X/LB 1.0180 1.0450											
PH1 .00. .00.04 .00.09											
ALPHA (3) = 3.964 BETA (3) =	4.240 MACH	= 1.2462	o		600.16	۵	= 552.05		RN/L	w W	3.0262
SECTION ! 1) BODY FLAP LOWER	DEPENDENT VARIABLE CP	IABLE CP									
X/LB 1.0:80 1.0%60											
PHI . 600 . 3736 . 3049 40.060 . 2516 . 1536											

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DATE 13 FEB 76 TABULATED PRESSURE 1	TABULATED PRESSURE DATA - DAIWB (AMES 11-073-1)	1-073-1				_	PAGE 5986	
ANES 11-(AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP LMR	R ORB 800	Y FLAP LWR		(XEBG4B)			
ALPHA (4) = 7.898 BETA (1) = -3.868 MACH	MACH = 1.2462	0	* 600.16	۵	= 552.05	RN/L	= 3.0273	Į.
SECTION (1)BODY FLAP LOWER DEPEN	DEPENDENT VARIABLE CP		•					
X/LB 1.0180 1.0460								
PHI .000. .000.04 .000.04								
ALPHA (4) = 8.000 BETA (2) = .178	.178 MACH = 1.2462	0	= 600.16	۵	= 552.05	PN/L	3.0273	ы
SECTION (1)BODY FLAP LOWER DEPEN	DEPENDENT VARIABLE CP							
X/LB 1.0180 1.0460								
PHI .000 .4757 .3540 40.000 .3500 .2182							•	
ALPHA (4) = 8.003 BETA (3) = 4.235	MACH * 1.2462	a	= 600.16	۵	• 552.05	RN/L	3.0273	м
SECTION (1)BODY FLAP LOWER DEPEN	DEPENDENT VARIABLE CP							
X/LB 1.0190 1.0460								
PHI .000 .4779 .3698 .000 .3382 .2137								
ALPHA (5) = 11.933 BETA (!) = -3.854	MACH = 1.2450		s 599.95	a	552.98	RN/L	3.0281	
SECTION (1) BODY FLAP LOWER DEPEN	DEPENDENT VARIABLE CP							
X/LB 1.0180 1.0450							•	
PH1 .000 .5654 .4175 40.000 .4354 .2604								
ALPHA (5) = 11.941 BETA (2) = .176	MACH = 1.2450		= 599.95	۵.	552.98	RN/L	3.028 1	
SECTION (1)BODY FLAP LOWER DEPEN	DEPENDENT VARIABLE CP							
X/LB 1.0180 1.0460								
PHI .000 .5628 .4123 40.050 .4141 .2610								

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DATE 13 FEB 76

TABULATED PRESSURE DATA - DAI48 (AMES 11-073-1)

AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP LMR

(XE8G+8)

4.253 MACH = 1.2450 DEPENDENT VARIABLE CP ALPHA (5) = 11.936 BETA (3) = SECTION (1)BODY FLAP LCWER

1.0190 1.0450 X/LB

.4691 PH1 .000 40.000 PAGE 5987

RN/L = 3.0281 552.98

= 599.95

0

10.00

TABULATED PRESSURE DATA - OA148 (AMES 11-073-1)

PAGE 5988

(XE8649) (05 AUG 75) AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP LUR

	REFE	REFERENCE DATA	DATA											PAR	PARAMETRIC DATA	DATA			
SREF = 2 LREF = BREF = SCALE = 3	2690.0000 474.8000 936.0680	S0.FT IN.		XMRP YMRP	3 10	1076.6800 .0000 375.0000	N N N N N N N N N N N N N N N N N N N	000					RUDDER = BOFLAP = R-ELVN =	7-	-10.000 16.300 4.000	SPDBRK = L-ELVN = MACH =	ão -	85.000 4.000 1.100	
ALPHA (1)	ŧs	-4 · 022	BETA	1		-3.848	MACH		-:	1.1001	a	600 . 26	۵.	•	708.59	RN/L	•	3.1930	
SECTION (1)BODY FLAP LOWER	1) BODY	FLAP L	OWER			3430	DEPENDENT VARIABLE CP	VAR	ABLE	ಹಿ									
X/LB	1.0180	1.0460	9																
000 Co4 000 THA	. 2628 . 1273	. 1 893 . 0789	ღი																
ALPHA (1)	þ	-4.022	BETA	(S)		. 189	MACH		÷,	1.1001	O	600.26	Q .		708.59	RN/L		3.1930	
SECTION (1) BODY FLAP LOKER	:) BODY	FLAP L	CHER			0EPE	DEPENDENT VARIABLE CP	VAR	ABLE	8									
x/LB	1.0180	1.0450	0				•												
PH1 .000 40.300	.1168	.2146 2770.	rò ru																
ALPHA (1)	Ħ	-4.029	BETA	(3)		4.271	MACH		1.1001	1001	o	600.26	۵		708.59	FN/i.		3.1930	
SECTION (1) BODY FLAP LOWER	1.18007	FLAP L	OWER			0EP	DEPENDENT VARIABLE CP	VAR	ABLE	ಕ್ಷಿ									
אירם	1.0180	1.0460	9																
PHI . 600 40. 006	.235 <i>1</i>	. 1826	តិស				Þ												
ALPHA (2)	tt.	.025	BETA	: :		-3.865	#ACH		= 1.1003	1003	0	600.53	۵		708.60	RN/L		3.195)	
SECTION (1)BODY FLAP LOWER	118004	FLAP L	OWER			3430	DEPENDENT VARIABLE CP	VAR	ABLE	8									
x/LB	1.0180	1.0460	 9																
PH1 .900 ¥9.600	.2932 .2187	.2102 .1210	<u>ن</u> د																

DATE 13 FEB 76	97 8:		TA.	BULATE	JEG CI	SSURE	DATA -	- 0A14	TABULATED PRESSURE DATA - OAI48 (AMES 11-073-!)	3 11-07	3-1							PAGE	5983
					¥	ES 11-	-0731CA	(148)	AMES 11-073(CA148) -140A/B/C/R ORB BODY FLAP LHR	C/R OR	8 BODY	FLAP	£			(XE8649)	_		
A. PHA (2)	,,	.030	BETA	(a)	ų.	. 186	MACH		= 1.1003	O	и	= 600.53	53	Q.	H	708.60	RN/L		3.1951
SECTION (1 1 BODY FLAP LOWER	FLAP L	OWER.			3430	NDEN:	VARIA	DEPENDENT VARIABLE CP										
X/LB	1.0180	1.0460	õ																
PH1 .000 40.000	.3423 .1991	. 2359	85																
ALPHA (2)		.026	BETA	(2)		4.247	MACH		* 1.1003	O		600.53	53	a .		708.60	¥	8	3.1951
SECTION (1)BODY FLAP LOWER	1 1 BODY	FLAP L	OWER			363C	NDCNT	VARIA	DEPENDENT VARIABLE CP										
X/LB	1.0180	1.0450	ö																
941 . 838 46. 838	.2831 .1785	. 21 14 5832	<u> </u>																
ALPHA (3)		3.995	BETA	=======================================		-3.867	MACH		1.1004	ø	*	600.49	ញ្	۵.	•	708.37	RN/L	•	3.1949
SECTION (1) BODY FLAP LOWER	1.1 BODY	FLAP L	OWER			DEPE	NDENT	VARIA	DEPENDENT VARIABLE CP										
X/LB	1.0183	1.0450	Ö																
PH1 . CC0 40.000	.3950 .2840	. 2584 . 1512	ቷ ለነ																
ALPHA (3)		3.996	BETA	5		. 185	MACH		1.1004	a	*	600.49	Đ.	Q.		708.37	FR/L		3.1949
SECTION (1) BODY FLAP LOWER	1,9007	FLAP L	CHER			3d30	NDENT	VARIA	DEPENDENT VARIABLE CP										
X/L9	1.0183	1.0460	ဌာ																•
PH1 .600 .40.000	. 2826	. 1175. 5241.	~ <u>(v</u>															•	
ALPHA (3)		3.999	BETA	E		4.239	MACH	•	1.1004	ø		64.009	ō.	a		708.37	1	•	3.1949
SECTION (1180DY FLAP LOWER	118007	FLAP L	CWER			DEPE	NDENT	VARIA	DEPENDENT VARIABLE CP										
X/LB	1.0180	1.0450	<u>o</u>																
P#1 .630 49.000	. 3939	. 2651 1261	<u> </u>																

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CATE 13 FEB 76 TABULATED PRES	PRESSURE DATA - DATUB (AMES 11-073-1) AMES 11-073-10)	1-073-1) (20 - 12 AP 1 A		(VERGAG)		PAGE 5990
ALPHA (4) * 7.942 BETA (1) * -3	-3.865 MACH = 1.1006		= 600.80	٩	- 708.51	I SA'L	3.1953
SECTION (1) BODY FLAP LOWER	DEPENDENT VARIABLE CP						
X/L3 1.0180 1.0460							
PH1 .000 .4791 .3004, 40.000 .3461 .1650							
ALPHA (4) # 8.042 BETA (2) =	.178 MACH = 1.1006	ø	800.80	۵	- 708.61	RN/F	= 3.1953
SECTION (1:80DY FLAP LOWER	DEPENDENT VARIABLE CP						
X/LB 1.0160 1.0450							
PHI . GGD . 4832 . 3023 40. GGD . 3517 . 1604							
ALPHA (4) = 8.044 BETA (3) = 4	4.232 MACH = 1.1005	o	= 600.80	۵	- 708.61	SN/L	3.1953
SECTION (1) 500Y FLAP LCMER	DEPENDENT VARIABLE CP						
X/L9 1.0180 1.0450							
PHI 7505. 777+. 500. 40.060. 3355. 1516							
ALPHA (5) = 11.980 BETA (1) = -3	-3.845 MACH = 1.0980	o	s 599.65	۵	* 710.48	FN/L	3.1930
SECTION (1) BODY FLAP LOWER	DEPENDENT VARIABLE CP						
X/LB 1.0180 1.0460							
749 3253 9448 000. 100.04 77 140.							
ALPHA (5) = 11.986 BETA (2) =	.181 MACH * 1.0980	ø	599.65	۵	- 710.48	FN/L	3,1930
SECTION (1) BODY FLAP LOWER	DEPENDENT VARIABLE CP						
(7LB 1.0180 1.0460					•		
PH1 .000. .000.04 .000.04							

DATE 13 FEB 76

TABULATED PRESSURE DATA - DAIMB (AMES 11-073-1)

AMES 11-07310A148) -140A/B/C/R ORB BODY FLAP LMR

= 599.65 ø 4.250 MACH = 1.0980 DEPENDENT VARIABLE CP ALPHA (5) = 11.982 BETA (3) = SECTION (11800Y FLAP LOWER

1.0180 1.0460 X/LB

.5486 .3876 PHI .000 40.000

.3299

PAGE 5991

(XE80#3)

710.48

₹ 3.1930

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AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP LWR

AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP LWR	30	CXEBG50) 1 t5	1 05 AUG 75 J
REFERENCE DATA	PARAMET	PARAMETRIC DATA	
SREF = 2690.0000 SO.FT. XMRP = 1076.6800 IN. XO LREF = 474.5000 IN. YMRP = .0000 IN. YO BREF = 936.0099 IN ZMRP = 375.0000 IN. ZO SCALE = .0000	10.000 15.300 15.000	B SPORPK # CL-ELVN # MACH # MACH	មិន ខ្លួក ខេ ខ្លួក ខេ ខ ខ ខ ខ ខ ខ ខ ខ ខ ខ ខ ខ ខ ខ ខ ខ ខ ខ
ALPHA (1) = -4.039 BETA (1) = -3.850 MACH = .89970 0 = 599.92 P	1058.7	THENT	= 3.5783
SECTION (1) BODY FLAP LOWER DEPENDENT VARIABLE CP			
X/LB 1.0180 1.0450			
PH: 000 : 3003 : 0893 : 000: 000: 000: 000: 000: 000: 000:			
ALPHA (1) = -4.025 BETA (2) = .188 MACH = .85970 0 = 599.92 P	* 1058.7	T BN/L	= 3.5763
SECTION (1) BODY FLAP LCKER DEPENDENT VARIABLE CP			
X/L8 1.0183 1.0+50			
PHI -000 .3250 .1077 -0000 -1520 -0015			
ALPHA (!) = -4.037 BETA (3) = 4.257 MACH = .89970 0 = 599.92 P	≥ 1058.7	TVNE C	3.5753
SECTION (1) BODY FLAP LOWER DEPENDENT VARIABLE CP			
X/LB 1,0180 1.0460			
라는 기타리 1 등을 5 등을			
ALPHA (2) =: .032 BETA : 1) = -3.867 MACH = .89853 0 = 599.04 P	8 1060.0	5 G	= 3.5758
SECTION (1:800Y FLAP LOWER DEPENDENT VARIABLE CP			
X/LB 1:0180 1.0460			

DATE 13 FEB 76 TABULATED PRESSURE DATA	PRESSURE DATA - 04148 (AMES 11-073-1	1-073-1	^				PACE 5993
AMES 11-0731	AMES 11-07310A148) -140A/B/C/R ORB BODY FLAP LUR	R 088 BO	OY FLAP LUR		CXEBGSD	60	
ALPHA (2) = .035 BETA (2) = .184 MA(мсн ≈ .89853	o	≠ 599.04	α	■ 1050.0	T/NG	3.5758
SECTION (1900Y FLAP LOWER DEPENDENT	DEPENDENT VARIABLE CP						
X/LB 1.0180 1.0%60							
#260. 5415. 000.04 #260. 5415. 000.04							
ALPHA (2) = .029 BETA (3) = 4.248 MACH	.сн = .89853	a	* 599.04	O	- 360.0	¥ 7	■ 3 575R
SECTION (1)BODY FLAP LOWER DEPENDENT	DEPENDENT VARIABLE CP						
X/LB 1.0180 1.0460							
0+60° 7685° 000°0+ 0+80°- 7685° 000°0+							
ALPHA (3) = 3.999 BETA (1) = -3.868 MACH	сн ≈ .90073	a	= 600.62	Ω.	≈ 1357.E	17.6	= 3.5790
SECTION (11803Y FLAP LOWER DEPENDENT	DEPENDENT VARIABLE CP						
X.18 1.0180 1.0460							
P.'I .500 .3517 .1071 95.000 .2392 .0259							
ALPHA (3) = 4.003 BETA (2) = .184 MACH	сн = .90073	5	≈ 600.62	۵.	■ 1057.6	7/2	= 3.5730
SECTION (1)800Y FLAP LOWER DEPENDENT	DEPENDENT VARIABLE CP						
X/LB 1.0180 1.0460							
0701. 3745. 000.04 0703. 1815. 000.04							
ALPHA (3) = 4.005 9ETA (3) = 4.239 MACH	сн ≈ .90073	o	= 690.62	c .	= 1057.6	1	₹ 3.5790
SECTION (1)800Y FLAP LOWER DEPENDENT	DEPENDENT VARIABLE CP						
X/LB 1.0180 1.0463							
PHi .000 .3509 .1097 .40.000 .20160207							

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DATE 13 FEB 76 TABULATED PRESSURE DATA - OAI48 (AMES 11-073-1)			M .	PAGE 5994	
AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP LWR	Æ	(XE8650)			
ALPHA (4) = 8.040 BETA (1) = -3.870 MACH = .89937 Q = 599.61	a	1059.0	RN/L	3.577 1	
SECTION (1'BODY FLAP LOWER DEPENDENT VARIABLE CP					
X/LB 1.0180 1.0465					
PHI .000 .3854 .1214 .0.000 .2513 .0365					
ALPHA (4) = 8.045 BEIA (2) = .178 MACH = .89937 0 = 599.61	a	• 1059.0	PN/L	. 3.5771	
SECTION (1) BODY FLAP LOWER DEPENDENT VARIABLE CP					
X/LB 1.0180 1.0460					
PHI . 3923 . 1202 . 40.000 . 2376 . 0072					
ALPHA (4) = 8.043 BETA (3) = 4.236 MACH = .89937 0 = 599.61	a	= 1059.	RN/L	3.5771	
SECTION (:) BODY FLAP LOWER DEPENDENT VARIABLE CP					
X/LS 1.018C 1.0450					
FHI . COO . 3958 . 1225 40.000 . 2237 0203					
ALPH4 (5) = 11.980 BE7A : 1) = -3.854 MACH = .89510 0 = 599.28	<u>م</u>	1059.0	PN/L	- 3.5742	
SECTION (1)500Y FLAP LOWER DEPENDENT VARIABLE CP					
x/L8 1.0180 1.0460					
PHI .305 .4137 .1232 40.020 .2753 .0269					
ALPHA (5) = 11.589 BETA (2) = .180 MACH = .89910 0 = 599.28	a .	- 1059.0	RN/L	3.57 42	
SECTION (1)BCDY FLAP LOWER DEPENDENT VARIABLE CP					
X/LB 1.0180 1.0450				•	
РН1 .863 .4102 .1317 45.552 .2562 .					

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DATE 13 FEB 76

TABULATED PRESSURE DATA - DAINB (AMES 11-073-1)

AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP LWR

(XE8650)

RN'L **=** 1059.0

> 1.0180 1.0460 X/LB

PHI .000 40.000

ALPHA (5) * 11.979

.1321 . 4180 . 2432

SECTION (1) BODY FLAP LOWER

= 599.28

O

4.2E0 MACH = .89910 DEPENDENT VARIABLE CP

BETA (3) =

3.5742

PAGE 5995

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5 1.

REFERENCE DATA

2690.0000 SQ.FT. 474.8000 IN. 935.0680 IN.

SREF *
LREF =
BREF =
SCALE =

TABULATED PRESSURE DATA - DAIMB (AMES 11-073-1)

4.810* PAGE 5996 (XEBG51) (05 AUG 75 SPOBRK = L-ELVN = MACH = **3** PARAMETRIC DATA 2387.9 -10.000 16.300 4.000 RUDDER BOFLAP RELVN ٥. AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP LWR 592.57 **■** .59542 -7.854 MACH 1076.6800 IN. XO .0000 IN. YO 375.0000 IN. ZO ALPHA (1) = -3.976 BETA (1) = XMRP YMRP ZMRP

DEPENDENT VARIABLE CP SECTION (1) BODY FLAP LOWER -.0183 1.0180 1.0460 .2171 .1312 .000 40.000 표 X/LB

Š 2387.9 592.57 ø **=** .59542 DEPENDENT VARIABLE CP -3.844 MACH # ດິນ ບ BETA SECTION 1 11800Y FLAP LCHER ALPHA (1) = -3.959

4.8104

1.0180 1.0460 X/LB

.2282 -.0155 .1375 -.0489 PH1 .000 40.000

DEPENDENT VARIABLE CP . 188 9 BETA SECTION (1) BODY FLAP LOWER ALPHA (1) = -3.955

1.0180 1.0460 .2434 -.0022 .1095 -.0780 PH1 .000 40.000 X/LB

592.57 * .59542 DEPENDENT VARIABLE CP 4.269 MACH * (}) ALPHA (1) = -3.963 BETA SECTION 1 1380DY FLAP LCWER

Š

- 2387.9

ž

2387.9

592.57

1.0460 1.0180 X/LB

.2204 .000 40.030

DATE 13 FEB	37 B		TAB	JULATE	O PRE	SSURE 1	DATA -	OA14	8 (AME	TABULATED PRESSURE DATA - OA148 (AMES 11-073-1	3-1)					_	PAGE 5997	5997
					AM	ES 11-	373(0A	148)	-140A/E	/C/R ORE	3 B00Y	AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP LUR			(XE8651)			
ALPHA (1)	-3.980		SETA	(5)	ţi	8.339	MACH	Ħ	.59542	O		592.57	۵		2387.9	RN/L		4.81G4
SECTION (SECTION (1) BODY FLAP LOWER	יראף נמי	WE'R			Ľ∴PEI	CENT	VARIA	C.PENDENT VARIABLE CP									
X/LB	1.0180	1.0460																
PH1 .000 +0.000	. 2151 . 0950	0154 1066																
ALPHA (2)	ħ	.060	BETA	3	.,	-7.891	MACH	*	.59620	ø	*	593.39	۵		2387.5	RA/L		4.8200
SECTION (SECTION (1)BODY FLAP LOWER	LAP LO	MER			OEPE	DENT	VARIA	DEPENDENT VARIABLE CP									
X/LB	1.0180	1.0460																
PH1 .000 .000	.2543	0323															•	
ALPHA (2)	n	.070 E	BETA	<u>@</u>	N.	-3.863	MACH	Ħ	. 59620	a	*	593.98	Q.		2387.5	RN/L		4.8200
SECTION (SECTION (1)BODY FLAP LOWER	LAP LC	£3			DEPEN	DENT \	/ARIA	DEPENDENT VARIABLE CP									
X/LB	1.0:80	1.0450																
PH1 . 500 . 40.030	.1600	0102																
ALPHA (2)	•	. 075 B	BETA	8		85	MACH	•	. 59620	6	•	593.99	۵		2387.5	RN/L	,	4.8200
SECTION (11900Y FLAP LOWER	LAP LOS	e i		•	DEPEN	DENT V	/ARIAE	DEPENDENT VARIABLE CP									
X/LB	1.0180	1.0463															•	
7HI 000. 000.04	.2401 .1299	0059 0700																
ALPHA (2)	Ħ	e 070.	BETA	÷	H	4.248	MACH		. 59620	ø	*	593.99	۵	10	2387.5	PN/L		4.8200
SECTION (1) BODY FLAP LOWER	1) BCDY F	LAP LON	ri R			DEPEN	DEPENDENT VARIABLE CP	ARIAE	RE CP									
X/LB	1.0180	1.0460																
PH1 . 000 40. 000	1810 1811	0046																

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TABULATED	0A146 48)	1-073-1) R ORB BODY FLAP LI	Œ	(XE8651)		PAGE 5998
ALPHA (2) = .066 BETA (5) = SECTION (1) BODY FLAP LOWER	8.300 MACH = .59620 DEPENDENT VARIABLE CP	0 = 593.99	٩	= 2387.5	RN/L	. 4.8200
1.0160 1.0460 .2506 .0044 .105+1044					•	
ALPHA (3) = 4.023 BETA (1) = SECTION (1)BODY FLAP LOWER	-7.901 MACH = .59564 DEPENDENT VARIABLE CP	0 = 593.05	a.	- 2388.1	FN/L	• 4.8156
1.0180 1.0460 .2704 .0088 .18220262						
ALPHA (3) = 4.027 BETA (2) = SECTION (1)BODY FLAP LOWER	-3.864 MACH = .59564 DEPENDENT VARIABLE CP	0 = 593.05	a .	= 2388.1	RN/L	* 4.8166
PH1 .500 .26050007 45.000 .16890354 ALPHA (3) = 4.029 BETA (3) =	.191 MACH = .59564	0 = 593.05	a.	• 2388.1	RNYL	* 4.8165
SECTION (1)80DY FLAP LOWER -LB	DEPENDENT VARIABLE CP					
LP4A / 3) = 4,03; BETA (4) = SECTION (1)BODY FLAP LOWER	4.239 MACH = .59564 DEPENDENT VARIABLE CP	0 = 593.05	Q.	2388.1	RN/L	• 4.8166
1.0180 1.0460 .2647 .0079 .12630873						

Application of the production
DATE 13 FEB 76 TABL	TABULATED F	PRESSURE	DATA -	PRESSURE DATA - DAIHB (AMES 11-073-1)	AMES 11	-073-1	_					Q.	PAGE 5999	Q)
		AMES 11-	-07310A	ANES 11-073(0A148) -140A/B/C/R ORB BODY FLAP LMR	A/B/C/R	ORB 80		AP LWR			(XE8651)			
ALPHA (3) = 4.035 BETA (- (2)	8.279	8.279 MACH	- 59564	264	0	E E	593.05	۵	CU II	2388.1	RN/L	# #.	4.8166
SECTION (1)BODY FLAP LOWER		143 0	NOENT	DEPENDENT VARIABLE CP	<u>a</u> ,									
X/LB 1.0180 1.0460														
PHI .000 .2727 .0089 40.000 .11710948														
ALPHA (4) = 8.061 BETA (= = =	986 4-	MACH	± .59572	572	0	ii Ü	593.16	۵.	N H	2387.8	RNAL	*	4.8358
SECTION 1 1380DY FLAP LOWER		DEPE	NDEN	DEPENDENT VARIABLE CP	g.									
X/LB 1.0180 1.0460			•											
PH1 .000 .2939 .0187 .40.000 .1945														
ALPHA (4) = 8.070 BETA (= (2)=	-3.859	MACH	± .59572	572	0	ı,	593.16	۵	<u>د</u> ۳	2387.8	RN/L	# #.	4.8368
SECTION (1) BODY FLAP LOWER		0£P	NOENT	DEPENDENT VARIABLE CP	<u>B</u>									
X/LB 1.0:80 1.0:450			١											
PH1 . 000 . 2892 . 002. . 00.00 0322														
ALPHA (4) = 8.059 BETA (33 =	. 180	MACH	s. 59572	572	a	iñ "	593.16	۵	e e	2387.8	RN/F		4.8368
SECTION 1 11800Y FLAP LOWER		DEPE	NOENT	CEPENDENT VARIABLE CP	8									
X/LB 1.0180 1.0460									•		•			
PH1 .000 .2919 .0240 .000.04														
ALPHA (4) = 8.069 BETA (* (3)	4.237	MACH	* .59572	572	ø	iñ H	593.16	٩	.	2387.8	1	3.	4.8368
SECTION (1)BODY FLAP LOWER		0EP	NGENT	DEPENDENT VARIABLE CP	8									
X/LB 1.0180 1.0460														
PHI . 300 . 2972 . 0278 . 0.00.04														

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DATE 13 FEB 76 TABULATED PRE	PRESSURE DATA - DAI48 (AMES 11-073-1)	11-073-1					PAGE 6000
AR	AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP LMR	/R ORB BOD	Y FLAP LWR		(XE8651)	_	
ALPHA (4) = 8.053 BETA (5) =	8.284 MACH = .59572	a	= 593.16	۵.	= 2387.8	RN/L	= 4.8368
SECTION (1)BODY FLAP LOWER	CEPENDENT VARIABLE CP						
X/L9 1.0180 1.0450							
PHI . 000 . 2937 . 0148 . 0.000 . 1316 0829							
ALPHA (5) = 12.002 BETA (1) = -	-7.847 MACH = .59550	0	= 592.81	۵.	= 2388.1	RN/L	- 4.8267
SECTION (1)BODY FLAP LOWER	DEPENDENT VARIABLE CP						
X/LB 1.0160 1.0460							
PHI .000. 900.04000.04							
ALFHA (5) = 12.023 BETA (2) = -	-3.840 MACH * .59550	ø	* 592.81	۵	2338. 1	PN/L	* 4.8267
SECTION (1)BODY FLAP LOWER	DEPENDENT VARIABLE CP						
X/LB 1.0180 1.0460							
PHI .000 .3144 .0323 .0000 .20040235							
ALPHA (5) = 12.027 BETA (3) =	.177 MACH = .59550	O	* 592.81	۵	• 2388.1	FRV	- 4.8267
SECTION (1)BODY FLAP LOWER	DEPENDENT VARIABLE CP						
X/LB 1.018C 1.0460							
PHI .000 .3189 .0342 40.000 .18380424							
ALPHA (5) = 12.024 BETA (4) = 1	4.250 MACH = .59550	•	592.81	۵	- 2388.1	RN/L	• 4.8267
SECTION (1) BCDY FLAP LOWER	DEPENDENT VARIABLE CP	-					
X/LB 1.0180 1.0450			•				
943. 3174 0354 6433 878 . 0354							

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٥ AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP LWR 592.81 TABULATED PRESSURE DATA - DAINB (AMES 11-073-1) O . 59550 DEPENDENT VARIABLE CP 8.307 MACH BETA (5) SECTION (1:800Y FLAP LOWER . 0275 - . 0642 1.0180 1.0450 ALPHA (5) = 12.010 .1581 PH1 .000 40.000 X/LB

DATE 13 FEB 76

· 4.8267

RN/L

(XE8651) 2388.1

PAGE 6001

ORIGINAL PAGE IS OF POOR QUALITY

2.9139 = 2.9139 - 2.9139 55.000 -4.000 1.400 # 2.919 1 05 AUG 75 3 PAGE 6002 Z 3 ž SPDBRK : L-ELVN : MACH : ž PARAMETRIC DATA (XE8652) **= 439.9**₩ -10.000 16.300 4.000 **=** 439.94 ± 439.9+ **# 439.70** RUDDER = BOFLAP = R-ELVN = ٥ Q. AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP LWR 600.46 600.46 **■** 600.46 600.78 ø a O 0 -3.860 MACH = 1.3963 = 1.3963 MACH = 1.3963 1.3971 DEPENDENT VARIABLE CP DEPENDENT VARIABLE CP DEPENDENT VARIABLE CP DEPENDENT VARIABLE CP -3.878 MACH 4.268 MACH 1076.6800 IN. XO .0000 IN. YO 375.0000 IN. ZO . 186 BETA (1) = (S) = BETA (!) = BETA (3) = XMRP YMRP ZMRP BETA REFERENCE DATA SECTION (1)BODY FLAP LOWER SECTION (1)BODY FLAP LOWER SECTION (1) BODY FLAP LOWER SECTION (1)BODY FLAP LOWER 2690.0000 SQ.FT. 474.8000 IN. 936.0580 IN. .1853 .0508 . 1749 . 0580 1.0189 1.0463 1.0180 1.0460 1.0180 1.0460 1.0180 1.0460 ALPHA (1) = 1 -4.043 ALPHA (1) = . -4.048 £. -.027 ALPHA (1) = . -4.050 .0396 . 1826 . 1956 . 0764 ALPHA (2) 2000 . O+ FH: .000 40.000 40.000 PH1 .000 40.630 SREF = LREF = BREF = SCALE = ïï Ĭ. X/LB

X/LB

X/LB

. 8252 . 0755

. 2380 . 1430

X.LB

The second of th

2.91g 2.912 PAGE 5003 Z ž Y Z ž (XE8G52) 439.70 = 439.70 · 439.71 **439.7**1 439.71 'n. ٥ ٥. AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP LMR 600.78 600.78 * 600.16 600.1E **=** 600.16 TABULATED PRESSURE DATA - DAIYB (AMES 11-073-1) a O C3 O .172 MACH = 1.3971 = 1.3971 **=** 1.3964 DEPENDENT VARIABLE CP DEPENDENT VARIABLE CP DEPENDENT VARIABLE CP DEPENDENT VARIABLE CP .174 MACH 4.247 MACH 4.236 MACH MACH -3.886 ALPHA (2) = -.015 BETA (3) = BETA (2) = 3) BETA BETA ALPHA (3) = 3.912 BETA SECTION (1'BODY FLAP LOWER SECTION (1) BODY FLAP LOWER SECTION (1) BCDY FLAP LOWER SECTION (11900Y FLAP LOWER 1.0:30 1.0450 1.0180 1.0450 1.0180 1.0460 .2438 .2167 .1239 .0907 .3317 .3014 .2271 .1549 1.0183 1.0460 .3312 .2978 .2076 .1461 ALPHA (2) # -.013 3.910 3.916 . 1269 . 1269 DATE 13 FEB 76 ALPHA (3) = ALPHA (3) PHI .530 #6.630 000.34 40.000 PHI .080 40.062 .000 40.000 X/LE X/LB X/LB A/LB

SECTION (1) BODY FLAP LOWER 1.0150 1.0% A/LB

DEPENDENT VARIABLE CP

PHI .000 40.000

.2056

DATE 13 FEB 76 TASULA	ATED P	TASULATED PRESSURE DATA - DAI 48 (AMES 11-073-1)	ATA - C) 841 K	AMES 1	1-073-1	_					PAGE BOOM
		AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP LWR	73(DA14	18) -14()A/B/C/I	A ORB BC) ()	LAP LWR		(XE8652)	6	
ALFHA (4) = 7.922 BETA : 1)	= =	-3.876	MACH	= 1.3965	3965	ø		593.65	۵	± 439.24	RN/L	■ 2.9107
SECTION : 1180DY FLAP LOWER		DEPEN	DENT VA	DEPENDENT VARIABLE CP	9							
X/L9 1.0180 1.0460												
PHI .000 .4339 .3835 .000 .3056 .2071												
ALPHA (4) = 7.930 BETA (2)		.169	MACH	*	1.3965	0		599.65	۵.	± 439.24	RN/L	- 2.9107
SECTION (1)BODY FLAP LOWER		DEPEN	DENT VA	DEPENDENT VARIABLE CP	8							
X/LB 1.0180 1.0460												
1Hd 4772. 5924. 000. 1815. 9795. 000.04												
ALPHA (4) = 7.931 BETA (3)	# \$	4.235	MACH	= 1.3965	3962	ø		599.65	a .	* 439.24	Z.	2,9107
SECTION (1) BODY FLAP LOWER		DEPEN	DENT VA	DEPENDENT VARIABLE CP	<u>8</u>							
X/LB 1.0180 1.0460												
PH; . 000 . 3859 . 000 . 000 . 0281			•									
ALPHA (5) = 11.858 BETA (1)		-3.866 MACH	MACH	1.3951	1951	O		600.34	۵	= 440.65	1/NE	* 2.9155
SECTION (1) BODY FLAP LUMER		CEPEN	DENT VA	CEPENDENT VARIABLE CP	B							
X/LB 1.0180 1,0460												
PHI .000 .5441 .4502 40.000 .3799 .2655							P					
ALPHA (5) * 11.867 BETA (2)	# 6:	.167	MACH	= 1.3951	156	ø		60n.34	۵.	# 440.65	PN 71	= 2.9156
SECTION (1) BODY FLAP LOWER		DEPEN	DENT VA	DEPENDENT VARIABLE CP	e G							
X/LB 1.0180 1.0460												
PH] .000 .5376 .4482 .00009 .3841 .2850												

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DATE 13 FEB 76 TABULATED	TABULATED PRESSURE DATA - OAIMB (AMES 11-073-1)	173-1				à.	PASE 5005
	AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP LMR	ORB BODY FLAI	C.E.S.		(XE8652)		
ALPHA (5' = 11.865 BETA (3) =	4.248 MACH = 1.3951	0 = 601	600.34 P		440.65	1/XE	* (2.9115.5
SECTION (1'BODY FLAP LOWER	DEPENDENT VARIABLE CP						
X/L9 1.0180 1.0460							
1Hd 5544. 3543. 000. 8465. 7375. 000.04							
ALPHA (6) = 15.826 BETA (1) =	-3.845 MACH = 1.3947	0 = 600	600.64 P		441.12	1/8	= 2.910₹
SECTION (1)BODY FLAP LOWER	DEPENDENT VARIABLE CP						
X/LB 1.0190 1.0460							
1015. C850. C30. 20+2. 1884. C30.C4							
ALPHA (6) = 15.841 BETA (2) =	.165 MACH = 1.394? 0	*	600.64 P	#	441.12	PN/L	= 2.91D2
SECTION (11800Y FLAP LOWER	DEPENDENT VARIABLE CP						
1.0180 1.0460							
149 1000 - 6346 - 5077 1000 - 04							
ALPHA (6) = (5.833 BETA (3) =	4.274 MACH = 1.3947 0	€ 600.64		j H	= 441.12	HAVI.	= 2.9102
SECTION (1)500Y FLAP LOWER	DEPENDENT VARIABLE CP	•					,
X/LB 1.0180 1.0450							
1Hd 3+05. 5358. 000. 100.0+							

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DATE 13 KEB 76 TABULATED PRESSURE DATA CAIWB (AMES 11-073-1) AMES 11-073-1 AMES 1	(XEBG53)	₽. 103	AGE EDDB
	PARANETRIC D	ATA	
SPEF = 2690.0000 50.FT. XMRP = 1076.6800 in. XO LEEF = 474.8000 in. YMRP = .0000 in. YO SMEF = 935.0590 in. ZMRP = 375.0000 in. ZO SCALE = .0300	2000.4 000.4 000.4	SPOSPK * HELVN * KACH	55.000 -4.000 1.250
ALFHA (1) = -4.036 BETA (1) = -3.860 MACH = 1.2435 Q = 597.22 P	551.79	1/NE	3.0058
SECTION (1) BODY FLAP LOWER DEPENDENT VARIABLE CP			
X/LB 1.0:80 1.0460			
PHI . 1215 . 1245 0000 0155 0592			
ALPHA (1) = -4.029 BETA (2) = .182 MACH = 1.2435 0 = 597.22 P	5 51.79	R37.	3.0058
SECTION (1)803Y FLAP LOWER DEPENDENT VARIABLE CP			
X/LB 1.0180 1.0460 .			
PHI .000 .1593 .1317 .40.000 .03520109			
ALPHA (1) = -4.033 BETA (3) = 4.27! MACH = 1.2435 0 = 597.22 P	= 551.79	FN/L *	3.0068
SECTION (1)800Y FLAP LCHER DEPENDENT VARIABLE CP			
X/LB 1.0180 1.0460			
PHI .00: 1581 . 1284 .0.000 .02370050			
ALPHA (2) =011 BETA (1) = -3.881 MACH = 1.2454 0 = 599.32 P	* 552.04	# 7/N#	3.0119
SECTION (1)800Y FLAP LOWER DEPENDENT VARIABLE OF			
X/LB 1.0130 1.0460			
PH1 .000 . 2072 . 1690 .00.000 . 1502 . 0215			

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DATE 13 FEB 76 TABULATED	-	SURE D	ATA -	PRESSURE DATA - DAI'48 (AMES 11-073-1)	11-073-1	_					11.	PACE BCD7	7.
	APE	.s 11-0	7310A1	AMES 11-073(04148) -140A/B/C/R ORB BODY FLAP LWR	/R 09B E	303Y FLA	0 Ex.		Σ	DE 86537			
ALPHA (2) = .001 BETA (2) =	11	.178	MACH	= 1.2454	ø	53	599.32	a.	* 552.04	<u>ٿ</u> ٿ	ž.	m m	3.0119
SECTION (1) BOOK FLAP LOWER		DEPEN	DENT V	DEPENDENT VARIABLE CP									
1.0180 1.0460													
1H9 000. 00.00. 00.000.													
ALPHA (2) = .000 BETA (3) =	H	4.247	MACH	= 1.2454	Ø	# 00	599.32	α.	= 552.04	Ž.	Ž	m m	3.0119
SECTION (1)BODY FLAP LOWER		DEPEN	DENT V	DEPENDENT VARIABLE CP									
X/LS 1.0180 1.0460													
1H9 . 010 . 2059 . 1755 . 40.000 . 0974													
ALPHA (3) = 3.94% BETA (!) =) H	-3.877	MACH	= 1.2467	ø	i Si Si	599.84	۵.	= 55).34	Ŗ.	ž	M M	3.0121
SECTION (1) BODY FLAP LOWER		DEPEN	DENT V	DEPENDENT VARIABLE CP									
X/LB 1.0190 1.0460													
PH: .000 .3553 .2837 +0.000 .3553 .1482													
ALPHA (3) = 3.945 BETA (2) =	H	.180	MACH	- 1.2467	O	. 599	599.84	n.	* 55).J	Ē,	7.2	Mi #	3.0121
SECTION (1) BODY FLAP LOWER		DEPEN	DENT V	DEPENDENT VARIABLE CP									
X/LB 1.0180 1.0450													
149. 3848. 2821 2000.04 20.000.05													
ALPHA (3) = 3.949 BETA (3) =	<i>3</i> 7	4.232	MACH	= 1.2467	O	* 599	599.84	1.	= 551.34	Æ,	1/38	* 3.	3.0121
SECTION : 17805Y FLAP LOWER		CEPEN	DENT V	DEPENDENT VARIABLE CP									
X/LB 1.0180 1.0450													
PHI . 3640 . 2851													

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DATE 13 FEB 76 TABULATED PPE	PPESSURE DATA - DAIM8 (AMES 11-073-1)	1-073-1			a.	PAGE 5008
IA .	AMES 11-073(04148) -1404/B/C/R ORB BODY FLAP LWR	R ORB BODY FLAP LI	Œ	(XE8653)		
ALPHA (4) * 7.975 BETA (1) = -	-3.876 MACH = 1.2465	0 = 599.91	۵	- 551.57	RN/L	= 3.0143
SECTION (1) BODY FLAP LOWER	DEPENDENT VARIABLE CP					
X/LB 1.0180 1.0460						
9. i 000 . v593 . 3472 000 .004						
ALP4A (4) = 7.918 BETA (2) =	.169 MACH = 1.2465	G = 599.91	۵	- 551.57	RN/L	3.0143
SECTION (1) RODY FLAP LOWER	DEPENDENT VARIABLE CP					
X/L9 1.0180 1.0460						
PH! .000 .4579 .3469 .000.004						
ALPHA (4) = 7.882 BETA (3) =	4.233 MACH = 1.2465	0 = 599.9;	Q.	= 551.57	RN/L	= 3.0143
SECTION (1)BODY FLAP LOWER	DEPENDENT VARIABLE CP					
X/LB 1.0180 1.0450						
PHI .000 .4634 .3531 40.000 .2660 .1816						
ALPHA (5) = 11.916 BETA (1) = -	-3.857 MACH = 1.2482	8+.003 = 0	۵	= 550.64	FRV1	= 3.0151
SECTION (1) BODY FLAP LONER	DEPENDENT VARIABLE CP					
X/L9 1.0180 1 0460						
PH1 .000 .5+13 .399+ +0.000 .355+ .2287						
ALFH1 (5) = 11.930 BETA (2) =	.181 MACH = 1.2482	94.059 = 0	۵	= 550.64	RN/L	3.0151
SECTION (1)BODY FLAP LOWER	DEPENDENT VARIABLE CP					
X/LB 1.0160 1.0460						
PH1 . 000 . 5419 . 3938 . 40.000 . 3575 2255						

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					AMES 11-(73(0A)4	1- (81	AMES 11-073(04148) -140A/B/C/R ORB BODY FLAP LWR	ORB BO	년 년	AP LWR		(XE8653)	
ALPHA (5) * !1	=======================================	ιQ	BETA	(8)	BETA (3) = 4.245 MACH = 1.2482	MACH		. 2482	o	н	= 600,48 · P	G .	550.64	RN/L
SECTION (1) BODY TLAP LOWER	1) BCDY	, LAP	LOWER		DEPEN	DEPENDENT VARIABLE CP	AR I ABL	E CP						
x/L3	1.0180 1.0460	1.0	460											
PH1 .000 40.000	.3579	.3579 .3976 .3579 .2350	976 350											

TABULATED PRESSURE DATA - DAI48 (AMES 11-073-1)

DATE 13 FEB 76

3.0151

PAGE 6009

05 AUG 75 (XEBG54) AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP LWR

3.1837 3.:864 SPDBRK = L-ELVN = MACH = **2** Z Z PNž PARAMETRIC DATA = 707.69 -10.000 16.300 4.000 707.69 707.69 707.69 RUDDER = BDFLAP = R-ELVN = ٥ 600.89 600.89 600.89 **600.89** ø O - 1.1014 DEPENDENT VARIABLE CP CEPENDENT VARIABLE CP DEPENDENT VARIABLE CP DEPENDENT VARIABLE CP -3.853 MACH 1076.e800 IN. XO .0000 IN. YO 375.0000 IN. ZO .182 MACH MACH MACH -3.870 ລິ BETA (1) 3 ALPHA (1) = -3.931 BETA ALFHA (1) = -3.991 BETA .009 BETA REFERENCE DATA SECTION (1) BODY FLAP LOWER SECTION (1) BODY FLAP LOWER SECTION (1) BODY FLAP LOWER SECTION (1)BODY FLAP LOWER 2690.0000 SQ.FT. 474.8000 IN. 936.0680 IN. 1.0180 1.0450 .2468 .1713 .0383 .0185 1.0180 1.0460 1.0180 1.0460 .2192 .1569 .0534 .0210 1.0180 1.0450 ALPHA (1) = -3.970 . 2554 . 0829 .2905 MEHA (2) 40.300 40.300 .000 40.000 . 300 46. 330 SPEF = LREF = BHEF = SCALE = אירם X/LB X/LB x/La

DATE 13 FEB 76 TABULATED PRI	PRESSURE DATA - DAI48 (AMES 11-073-1)	1-073-1					PAGE 6011	6011
सं	AMES 11-073104148) -1404/9/C/R ORB BODY FLAP LMR	R ORB BODY	FLAP LWR		(XE8654)	3543		
4LPHA (2) = .092 BETA (2) =	.176 MACH = 1.1014	0	69.009	ο.	= 707.69	B RN/L	n	3.1864
SECTION : INBODY FLAP LOWER	DEPENDENT VARIABLE CP							
X L3 1.0180 1.0460								
PH! .500 .3228 .2136 .00000 .1442 .0876								
ALPHA (2) = .026 BETA (3) =	4.243 MACH = 1.1014	5	600.83	Q.	= 707.69	BN/L		3.1864
SECTION (1) BODY FLAP LOWER	DEPENDENT VARIABLE CP							
X/L5 :.318c 1.0460								
94: 200 - 20								
ALPHA (3) = 3.932 BETA (1) = .	-3.873 MACH = 1.1009	ď	600.53	۵.	= 707.91	RN/L		3.1859
SECTION (1)BODY FLAP LOWER	DEPENDENT VARIABLE CP							
X/LB 1.0190 :.0450								
PH:								
ALPHA (3) = 3.933 BETA (2) =	.171 MACH = 1.1009	0	600.53	0	- 707.91	RN/L	•	3.1859
SECTION (1)800Y FLAP LOWER	DEPENDENT VAPIABLE CP							
x.29 1.0150 1.0450								
189 - 000 - 2000 - 3622 - 2436 - 2000 - 2133 - 1111								
ALPHA (3) = 3.943 BETA (3) =	4.232 MACH = 1.1009	0	600.53	۵	= 707.91	FRVIL	Ħ	3.1859
SECTION (1:800Y FLAP LOWER	DEPENDENT VARIABLE CP							
X/LB 1.0180 1.0460								
PH: 3730 .2424 								

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DATE 13 FEB 76 TABULATED P	PRESSURE DATA - DAIWB (AMES 11-073-1)	1-670-1					PAGE 5012	312
	AMES 11-073(0A148) -140A/B/C/R ORB & ODY FLAP LWR	R ORB CODY F	LAP LWR		(XE8654)	(1 60		
ALPHA (4) = 7.906 BETA (1) =	-3.871 MACH = 1.1009	"	600.53	α.	= 707.91	Œ	# Wi	3.1862
SECTION (11800Y FLAP LOWER	DEPENDENT VARIABLE CP							
X/LB 1.0180 1.0460								
PHI .COO .4540 .2799 40.000 .2787 .1515								
ALPHA (4) = 8.006 BETA (2) =	.170 MACH = 1.1009	"	600.53	۵	= 707.91	RN/L	W.	3.1862
SECTION (1) BODY FLAP LOWER	DEPENDENT VARIABLE CP							
X/LB 1.0180 1.0460								
F41 . 295. +154. 203. . 2965. 000.04								
ALPHA (4) = 8.308 BETA (3) =	4.224 MACH = 1.1609	•	600.53	o.	= 707.91	RN/L	m Wi	3.1862
SECTION (1)BODY FLAP LOWER	DEPENDENT VARIABLE CP							
X/LB 1.0180 1.0450								
PHI								
11.922 BETA (1) =	-3.854 MACH ± 1.1005		500.31	à.	= 708.13	RN/L	#	3.1832
SECTION (1)BODY FLAP LOWER	CEPENDENT VARIABLE CP							
X/L9 1.0180 1.0460								
1881 - 7458, 000. 1881: 6148, 000. 1881: 6148, 000.04								
42-44 (5) = 11.941 BETA (2) =	.179 MACH = 1.1005		600.33	۵	= 708.13	FN/L	m "	3.1832
SECTION (1)BCDY FLAP LOWER	DEPENDENT VARIABLE CP							
X/LB 1.0180 1.0460								
PH! .030 .5290 .3156 40.000 .341! .1523								

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TABULATED PRESSURE DATA - DAIWB (AMES 11-073-1)

ANES 11-073:04148) -1404/B/C/R ORB BODY FLAP LWR

ALPHA (5) = 12,006 BETA (3) =

4.239 MACH = 1.1005

DEFENDENT VARIABLE CP

RN/L = 3.1832

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600.31

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(XE8654) 708.13

PAGE 5013

SECTION CITBOON FLAP LOWER 1.0190 1.0460 EZ/X

.3160 . 5272 1H4 000 000 to t

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TABULATED PRESSURE DATA - DAI48 (AMES 11-073-1)

ABLE COLORS A RELEASE DE LA COLORS AL CALLES A COLORS AL CALLES AND A COLOR DE COLORS AND ACCORDANCE DE LA COLOR DE LA CALLES AND ACCORDANCE DEL CALLES AND ACCORDANCE DE LA CALLES AND ACCORDANCE DEL CALLES AND ACCORDANCE DE LA CALLES AND ACCORDANCE DEL CALLES AND ACCORDANCE DE LA CALLES AND ACCORDANCE

D5 AUG 75 1 PAGE 5014 (XE8655)

3.5876 55.000 -4.000 # SPDBRK = L-ELVN = PACH = PN-L RN/L **F** 7 PARAMETRIC DATA 1057.8 -10.000 16.300 4.000 **=** 1057.8 1057.8 RUDDER = BDFLAP = R-ELVN = ٥ AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP LWR 600.64 600.64 600.64 O a O .90063 .179 MACH = .90063= .90063 DEPENDENT VARIABLE CP DEPENDENT VAL. 9LE CP DEPENDENT VARIABLE CP MACH -3.861 MACH = 1076.6800 IN. XO = .0000 IN. YO = 375.0000 IN. ZO ۲.262 دوع BETA (1) = (C) * 3 XMRP PRINTS PRINTS BETA BETA REFERENCE DATA SECTION (1) BODY FLAP LOWER SECTION (1)BCOY FLAP LOWER SECTION (1)800Y FLAP LOWER 2690.0000 SO.FT. 378.9000 IN. 936.0690 IN. 1.0180 1.0450 .3357 .1100 .1232 .5214 1.0180 1.0450 .3144 .1099 .1549 .0172 1.0180 1.0460 ALPHA (1) = -3.902 ALPHA (1) = -3.952 ALPHA (1) = -3.995 . 000 40.000 .000 40.000 000 O+ SREF = LPEF = BREF = SCALE = X/LB X/[B X:L3

. 1019 .0425 1.0183 1.5463 .3009 5000 . 3000 46. 6000 X/LB

3.5834

7 7 7

1059.5

۵.

599.16

.89683

MACH

-3.874

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95.1A

ALCHA (2) =

SECTION (11900Y FLAP LOWER

CEPENDENT VARIABLE CP

DATE 13 FEB 76 TABULATED F	FRESSURE DATA - DAIWB (AMES 11-073-1)	-073-1)			a.	PAGE 5015
	AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP LMR	ORB BODY FLAP LWR		(XE8655)		
ALPHA (2) = .080 BETA (2) =	.167 MACH = .89883	Q = 599.16	•	1059.5	RN/L	= 3.5834
SECTION (1) BODY FLAP LOWER	DEPENDENT VARIABLE CP					
X/LB 1.0183 1.0460						
PHI 000. 000.04.000.04						
ALPHA (2) = .057 BETA (3) =	4.244 МАСН = .89883	0 = 599.16	۵.	1059.5	RN/L	■ 3.583 ⁴
SECTION (1)BODY FLAP LOWER	DEPENDENT VARIABLE CP					
09+0:1 C010:1 E7/X						
PHI . 535 - 2695 - 5915 95.000 - 1653 - 5160						
ALPHA (3) = 5.945 BETA (1) =	-3.879 MACH = .89970	0 = 599.92	G.	1059.7	RN/L	= 3.5860
SECTION (1) BODY FLAP LOWER	DEPENDENT VARIABLE CP					
X/LB 1.0180 1.0450						
11850. 9525. 000.04						
ALPHA (3) = 3.95; BETA (2) =	.176 MACH = .89970	g = 599.92	n O.	1058.7	RNA	≠ 3.5860
SECTION (11800Y FLAP LOWER	DEPENDENT VARIABLE CP					
X/LB :.0:80 1.0460					•	
1Hd 6111. 1848. COD. 9850. 7715. OB9.04						
ALPHA (3) = 3.956 BETA (3) =	4.235 MACH * .89970	26.665 - 0	•	1058.7	1/N	3.5860
SECTION (1)BODY FLAP LOWER	DEPENDENT VARIABLE CP					
X/LB 1.2180 1.3450						
### 000 34.34 1072 40.660 1981 10041						

	AMES 11	973104146	AMES 11-073(04)48) -140A/B/C/R ORB BODY FLAP LWR	R ORB BC	סי דר	AP LWR			(XEB022)			
ALPHA (4) = 7.833 BETA (1) =	-3.876	MACH	89963	o	ų.	599.02	۵.	-	1059.8	RN/L	lt (A)	3.5893
SECTION (1)BODY FLAP LOWER	DEPE	DEPENDENT VARIABLE CP	NABLE CP									
X/L9 1.0180 1.0460												
741 . 000 . 3999 . 1295 . 00:009 . 2694												
ALPHA (4) = 8.030 BETA (2) =	. 173	МАСН	E .89863	ø	ŭ •	599.02	۵.		1059.8	RN/L	H (A)	3.5893
SECTION (1)BODY FLAP LOWER	3 6 30	DEPENDENT VARIABLE CP	HABLE CP									
X/LB 1.0180 1.0460												
1883 - 1883 - 000												
ALPHA (4) = 8.015 BETA (3) =	. 23 0	MACH	89863	ø	ព័	599.02	Q.		1059.8	RN/L	H KU	3.5893
SECTION (1)BODY FLAP LOWER	363C	DEPENDENT VARIABLE CP	1ABLE CP									
X/LB 1.0180 1.0460										٠		`
149 1605 - 3820 - 1183 1901-04									-			
ALPHA (5) = (1,973 BETA (1) *	-3.861	MACH	01668. ■	0	#	599.49	a		1059.5	PN/L	H 60	3.5890
SECTION (1)BODY FLAP LOWER	SEPE	DEPENDENT VARIABLE	IABLE CP									
X/L9 1.0183 1.0460												
PH1 												
ALPHA (5) = (1.987 BETA (2) =	. 182	MACH	. 89910	ø	ñ •	539.49	α.		1059.5	Į,	*	3.5890
SECTION (1180DY FLAP LOWER	3630	DEPENDENT VARIABLE CP	I ABLE CP									
X/L9 1.0180 1.0450												
1833 . 1333 . 1335												

DATE 13 FEB 75

TABULATED PRESSURE DATA - DAIMB (AMES 11-073-1)

AMES 11-073(04148) -140A/B/C/R ORB BODY FLAP LMR

1059.5 = 599.49 O 4.250 MACH = .89910 BETA (3) = ALPHA (5) = 12.005

DEPENDENT VARIABLE CP

1.0180 1.0460 x/La

SECTION (1) BODY FLAP LOWER

.4106 .2340

PAGE 6017

= 3.5890 (XEE655)

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DATE 13 FEB 76

PAGE 5018

iù 	55. 44. 50. 50. 50. 50. 50. 50. 50. 50. 50. 50	#.B797	7878. 4		4,8797	T. 8_97	
05 AUG 75	in i	# 	ar u		ar H	.T H	
(ATA	SPCBRK = L-ELVN = MACH	FN/L	7.2		T/N3	7/16	
(XEBG55) PARAMETRIC D	21.00 21.00	2385.5	2385. 6		2385. 8	2335.5	
à.		H	•		•	n	
	RUDDER BOFLAP R-ELVN	α	۵		۵.	۵.	ľ
LAP LHR		594.66	594.65		594.55	594.65	
IODY F		n	н		H	#	
/R ORB B		a	σ		o	o	
AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP LWR	99EF = 2695.0000 SO.FT. XMRP = 1076.6800 IN. XO LREF = 474.8000 IN. YMRP = .0000 IN. YO BREF = 936.0580 IN. 2MRP = 375.0000 IN. ZO SCALE = .0300	#LPHA (1) = -4.044 BETA (1) = -7.862 MACH = .59674 SECTION (1)800Y FLAP LOWER DEPENDENT VARIABLE CP X LB 1.0180 1.0460	FH: .000 .226 .0000 -0.000 .12350301 . ALEHA : 1) = -3.971 BETA (2) = -3.856 MACH = .59674	4 (1)BODY FL	.000 .2455 .0089 40.600 .13390416 . ALSHA : 1) = -3.944 SETA : 3) = .179 MACH = .59674 8507101 : 1)8007 FLAP LOWER, DEPENDENT VARIABLE CP	 52.5 3.15 50710N (1) BODY FL	X.L8 1.0180 1.0460 He :: 272 2185 2016 L. C.C.C 2248 0516

Z)

DATE :3 FEB 76 TABULATED PRESSURE DATA - DAIWB (AMES 11-073-1)				Ð.	PAGE 5019
AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP LAR	841 d		C CORPORATE TO A CORP		
ALPHA (1) = -3.957 BETA (5) = 8.330 MACH = .59674 G = 59	594.66	۵.	# 2355.5	3	TB787.4
SECTION (11803Y FLAP LOWER DEPENDENT VARIABLE CP					
X/L8 1.019C 1.045D					
2h10:- 8h12: 000:0h 2h10:- 8h12: 000:0h					
ALPHA (2) = .082 BETA (1) = -7.501 MACH = .59728 Q = 59	595.74	α.	- 2385.B		# 4.8905
SECTION (1)800Y FLAP LOWER DEPENDENT VARIABLE CP					
X.1.8 1.018C 1.0453					
PHI - 000 - 3555 - 000 - 34 - 000 - 346 - 010 - 754 - 000 - 34					
ALPHA (2) = 093 9ETA (2) = -3.873 MACH = .59728 Q = 59	595.74	α.	* 2335.5		\$385°+ #
SECTION (1780)Y FLAP LOWER DEPENDENT VARIABLE CP					
X/LB 1.0160 :.0+50					
FH: 010. 2407 .0160 7450 0531. 000.04			-		
ALPHA (2) = .095 BETA (3) = .179 MACH = .59728 Q = 59	595.74	a	₹ 2385.6	Z	# 4.89CE
SECTION (1)800Y FLAP LOWER DEFENDENT VARIABLE CP					
X/LS 1.0183 1.0460,					
650000 Chara CDD					
29. = 0.092 = 100. = 100. = 10.0 = 1	595.74	u.	= 2355.5	77.8	8008 · # · #
SECTION (11900Y FLAP LOWER DEPENDENT MARIABLE OF					
X/LB 1,0180 1.0460					
1600; +5+2; 000; 04 1600; +5+2; 000; 04					

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Andrew Colombian Colombia and the colombia of
B/C/R 048 BODY FLAP LWR	8 Q = 595,74 P = 2385,8 RVI = 4,8916				5 Q = 595.02 P = 2385.3 FN/L = 4.8897				388°+ = 7.8€ 2352°3 = 4.88€=				<u> </u>				3 Q = 595.02 P = 2395.3 FV/L = 4.9897			
AMES 11-073(0A148) -1404/B/C/R 078 BODY FLAP LWR	5) = 8.238 MACH = .59728	DEPENDENT VARIABLE CP			1) = -7.914 MACH = .59696	DEPENDENT VARIABLE CP			?) = -3.873 MACH = .59596	DEPENDENT VARIABLE CP			3) = .178 MACH = .59595	CEPENDENT VARIABLE			H + .232 MACH = .59595	DEPENDENT VARIABLE CP		
	ALPHA (2) = .039 BETA (5)	SECTION (17800Y FLAP LOWER	X/LS 1.0180 1.0450	PHI .000 - 2550 - 0037 40.000 - 11:9 - 2655	ALPHA (3) = 4.038 BETA (1	SECTION (1)500Y FLAP LOWER	0910:: C810:: 87/X	189 189 189 1739 - SCOS	ALPHA (3) = 4,041 BETA (2	SECTION (17800Y FLAP LOWER	X 128 1.0190 1.0460	1He 8156: 8175: COC. 7050:- +271: CC0.0+	ALPHA (3) = 4.095 BETA (3	THOM I THROUGH FLAM L	X/L9 1.0180 1.0460	941 9050 - 4654 - 0000 - 4	ALGGA (3) = 3.977 BETA (4)	SECTION (1)800Y FLAP LOWER	1.0180 1.0460	1+9 CA34 CCC

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S 11-073-1)	I/C/R CP3 803Y FLAP LKR	0 = 595.02 P = 2335.3 FN ; * -, 8897				\$58.7 * 1.Ng 7.255.5 = 9 85.4.28 a 0				9264.74 F 594.778 P # 2335.1 P #				0 = 594.78 p = 2335.1 p = 1.29			8385 H G 64.485 H G 65.485 H G			
DATE 13 FEB 75 TABULATED PRESSURE DATA - DAIHB (AMES 11-073-1	AMES 11-073:04149) -1404/8/C/R C-3	ALPHS (3) = 4.0) ESTA (5) = 8.279 MACH = .59596	SECTION OF CONFLAP LOWER DEPENDENT VARIABLE CP	X:CB 11.0460	FH: - 000 - 7705 - 0018 - 000 - 1319 - 0524	ALPHA (4) = 8.004 BETA (1) = +7.903 MACH = .59578	SECTION (1:500Y FLAP LOWER DEPENDENT VARIABLE OF	0010: 0010:	\$800 - 6261 000 0x	ALPHA (4) = 8.017 BETA (2) = -3.872 MACH = .59678	SECTION (1:800Y FLAR LOWER CR	3/KB 1.0193 1.0460	### BEST: COO. O	ALPHA (4) = 7.955 BETA (3) = .166 MACH = .59678	SECTION / 1:800/ FLAP LOWER CP	X/LB 1.0180 1.0480	ALPUAL 1 1 1931 SETA (4) 4 4,229 NACH = .59578	SECTION (1)800Y FLAP LOWER DEPENDENT VARIABLE CP	X/LB 1.0189 1.5483	BSECO: LEGER COOL

DATE 13 FEB 75 TAB	TABULATED PRESSURE DATA - DAINB (PRESSURE	DATA	- 0A14		:	<u>-</u>					o.	PAGE 5022	220	
		AMES 11	AMES 11-073(0A148) -140A	(841)	-1404		COY F	CDY FLAP LWR			(XE8G26)				
ALPHA 4) = 7.987 BETA	1 5) =	8.286	MACH	e	Ϋ́		"	594.78	<u>o</u> .		2385.7	RN/L	.T	4.8929	
SECTION (1:BODY FLAP LOWER		DEF	DEPENDENT VARIABLE	VARIA	BLE C										
X/LB 1.0180 1.0460											1 400				
PHI .000 .2902 .0120 .000.040									e.						
ALPHA (5) = 11.920 BETA	= = =	-7.867	MACH	*	.59670	0		594.67	۵		385.8	RN/L	<i>*</i>	4.8946	
SECTION (1) BODY FLAP LOWER		iii O	DESENDENT VARIABLE CP	VARIA	BLE CP										
X/LB 1.0190 1.0460															
PHI . 000 . 3221 . 0457 . 000.04															
ALPHA (5) = 11.942 BETA	(2) =	-3.850	-3.850 MACH	11	.59670	ø		594.67	œ	n	2385.8	RN/L	#	4.894E	
SECTION (1)BODY FLAP LOWER		20	DEPENDENT VARIABLE CP	VARIA	IBLE CP										
X/LB 1.6180 1.0460															
PHI .500 .3165 .0368 .00.000 .2031 ~.0059															
ALPHA (5) = 12.055 BETA	(3) =	. 165	3 MACH		.59670	0	u	594.67	Q.	•	2385.8	RN/L	<i>5</i>	4.8946	
SECTION (1:800Y FLAP LOWER		930	DEPENDENT VARIABLE CP	VARIA	BLE CP										
X/LB 1.0:80 1.0460															
PH: .300 .3153 .0377 .000.04															
ALPHA (5) = 12.053 BETA	# . 	4.239	9 MACH	*	.59670	o		594.67	۵.	•	2385.8	RN/L	1	4.8948	
SECTION (1) 30DY FLAP LOWER		30	DEPENDENT VARIABLE CP	VARI	WE CP										
X/LB 1.0185 1.0460															
PHI .000 .3149 .0327 40.000.71730203												•			

DATE 13 FEB 76

TABULATED PRESSURE DATA - DAIHB (AMES 11-073-1)

AMES 11-073(04148) -1404/B/C/R ORB BODY FLAP LMR

8.299 MACH = .59670 DEPENDENT VARIABLE CP BETA (5) = ALPHA (5) = 12.101

SECTION (1180DY FLAP LOWER

1.0180 1.0460 X/LB

PH1 .000 40.000

.3148 .0299

PAGE 6023

(XE8656)

RN'L

= 4.8945

2385.8

2.9055 2.9055 2.9062 2.9055 (XEBG57) (05 AUG 75) PAGE 602" SPOBRK = L-ELVN * R Z PN-S Z PARAMETRIC DATA **■** 441.59 = 441.36 441.59 441.59 10.000 16.300 -4.000 RUDDER BDFLAP R-ELVN ۵. AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP LWR 599.59 599.53 599.59 593.59 G 0 0 = 1.3927 * 1.3927 DEPENDENT VARIABLE CP DEPENDENT VARIABLE CP DEPENDENT VARIABLE CP DEPENDENT VARIABLE CP 1076.6800 IN. XO .0000 IN. YO 375.0000 IN. ZO MACH .202 MACH MACH RACH -3.843 -3.863 t. 282. = (1) BETA (1) * **"** (∂) 3) # XMRD YMRP ZMRP BETA BETA BETA SECTION (1) BODY FLAP LONER REFERENCE DATA SECTION (1) BODY FLAP LOWER SECTION (1) BODY FLAP LOWER SECTION (1)BODY FLAP LOWER 2690.0000 SQ.FT. 474.8300 IN. 935.0680 IN. .1712 .0558 1.0180 1.0460 1.0180 1.0466 1.0180 1.0450 1.3150 1.C46G .015 ALPHA (1) = -3.938 -4.026 ALPHA (1) = -4.001 11949 . 2010 . 0714 .1854 .1208 ALPHA (1) = ALPHA (2) PH1 .030 40.003 40.000 900 C+ BREF = SCALE = X/LB X/LB X/LB

.2451 .1549

.000 40.000

DATE 13 FEB 76 TABULATED	PRESSURE DATA - 04148 (AMES 11-073-1	-073-1)				α.	PAGE 6025
	AMES 11-073(0A149) -140A/B/C/R ORB BODY FLAP LNR	ORB BODY FLA	L MR		(XEBG57)		
A.PHA (2) = .021 BETA (2) =	.195 MACH = 1.3931	62 = 59	599.59	 ه	= 441.36	PV !	= 2.9062
SECTION (1) BODY FLAP LOWER	DEPENDENT VARI BLE CP						
X/LB 1.0180 1.0450							
PH1 . 000 . 2502 . 2284 . 0.000 . 1485 . 0840							
ALPHA (2) = .016 BETA (3) =	4.262 MACH = 1.3931	. 59	599.59	<u> </u>	= 441.36	RN/L	- 2.9052
SECTION (1)BODY FLAP LOWER	DEPENDENT VARIABLE CP						
X/LB 1.0180 1.0460							
PH1 .000 .2391 .2228 .000 .1625 .0976							
ALPHA (3) = 3.900 BETA (1) =	-3.857 MACH = 1.3926	95 *	599.48	Q.	= 441.59	RN/L	= 2.9063
SECTION (1) BODY FLAP LOWER	CEPENDENT VARIABLE CP		» •				
X/LB 1.0190 1.0450							
PHI .500 .3+13 .3027 40.000 .2+28 .1817							
ALPHA (3) =005 BETA (2) =	.197 MACH = 1.3926	0 = 59	595.48	a.	= 441.59	RN/L	= 2.9063
SECTION (1) BODY FLAP LOWER	DEPENDENT VARIABLE CP						
X/LB 1.0180 1.0460							
PH1 .000 .3363 .2989 .1711 .2363 .1711							
ALPHA (3) = 3.907 BETA (3) =	4.252 MACH * 1.3926	0 = 59	599.48	a .	= 441.59	RN/L	2.9063
SECTION 1 1: BODY FLAP LOWER	DEPENDENT VARIABLE CP						
X/LB 1.0180 1.0460							
PH1 .000 .3358 .3034 40.000 .2348 .1697							

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DATE 13 FEB 76 TABULATED	D PRESSURE DATA - OAI48 (AMES 11-073-1)	11-073-1			Q.	PAGE 6026
	AMES 11-073(0A148) -1403/E/C/R ORB BODY FLAP LMR	I'R ORB BODY FLAP LUR		(XEBG57)		
ALPHA (4) = 7.945 BETA (1) =	* -3.862 MACH * 1.3931	0 = 599.59	Q.	· 441.36	RN/L	≥ 2.8959
SECTION (1)BODY FLAP LOWER	DEPENDENT VARIABLE CP					
X/LB 1.0180 1.0460						
PHI .000 .4465 .3835 40.000 .3640 .2534						
ALPHA (4) = 7.917 BETA (2) =	. 187 MACH = 1.393i	0 = 599.59	۵	· ++1.36	RN/L	- 2.8969
SECTION (1)BODY FLAP LOWER	DEPENDENT VARIABLE CP					
X/LB 1.0180 1.0460						
PHI . 0CD . 4364 . 3743 40.CD0 . 3466 . 2399						
ALPHA (4) = 7.848 BETA (3) =	* 4.251 MACH * 1.3931	0 = 599.59	Œ	· 441.36	RN/L	2.8969
SECTION (1)BODY FLAP LOWER	DEPENDENT VARIABLE CP					
X/LB 1.0180 1.0460						
PHI . 000 . 4349 . 3767 40.000 . 3274 . 2418						
ALPHA (5) = 11.907 BETA (1) =	-3.847 MACH = 1.3946	0 = 6JJ.23	۵	# 440.88	RN/L	= 2.9052
SECTION (1)BODY FLAP LOWER	DEPENDENT VARIABLE CP					
X/LB 1.0180 1.0460						
PHI .000 .5479 .4438 .000.000 .4322 .2781						
ALPHA (5) = 11.890 BETA (2) =	1.3946 MACH = 1.3946	0 = 690.23	۵.	88·04h	RN/L	= 2.9052
SECTION (1)BODY FLAP LOWER	DEPENDENT VARIABLE CP					
X/LB 1.0180 1.0460						
PHI . 000 . 5407 . 4482 . 0.000 . 5454 . 6913						

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PRESSURE DATA - DAIHB (AMES 11-073-1) VERGES)	48) -140A/6/C/R ONG BODY TENT ENT.	DEPENDENT VARIABLE CP			-3.822 MACH * 1.3964 Q * 598.94 P * 438.77 RN/L * 2.9066	DEPENDENT VARIABLE CP			MACH = 1.3954 0 = 598.94 P = 438.77 RN/L = 2.9055	DEPENDENT VARIABLE CP			MACH = 1.3964 0 = 598.94 P = 438.77 RN/L = 2.9056	DEPENDENT VARIABLE CP		
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- OV	00.23				98.94				98.94				98.94			
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11-0	5				G				O				O			
I AMES	3946	<u>ئ</u> د.			.3964	а ::			.3954	о			.3964	E CP		
A148 (RIABLE			-	RI ABL			n	RIABL			-	RIABLI		
ra - 0,	ACH ACH	ENT VA			ЧАСН	ENT VA				ENT VA			MACH	ENT VA		
RE DAT	11-0/31041 4.265 MACH	PENDE			2	EPEND			.187	EPEND			4.292	EPEND		
RESSU	AMES 4.20	ä			-3.8	Ö			=	Ö			Ţ.	a		
Ω.	t)				" =				e E				(3) =			
TABULATED	(E)				_				-							
-	BETA	CWER	93	ည ရှ	BETA	OWER	56	8 8	BETA	OWER	20	28	BETA	CHER	93	1,7
	,	LAP 1	1.0460	.3046	175	LAP 1	1.0460	. 5032 . 3236	383	LAP L	 9+0	.5100 .5408	915	FLAP 1	1.04	5167
40	11.884	SECTION (1) BODY FLAP LOWER	1.0150	.5403	15.871	SECTION (1) BODY FLAP LOWER	1.0380	.6359	15.883	SECTION (1'BODY FLAP LOWER	1.0180 1.0460	.6379	15.915	SECTION I DIBODY FLAP LOWER	C940:1 0810:	.6352 .4876
	21	1 1 1			ALPHA (6) =	1(1)			ALPHA (B) =	1.1	-		# (c	-	.;	
CATE 13 FEB 75	ξ Σ			PH1 .000 40.000	w	2		PH: .000 .0.000	u	7.		PH1 .000 40.000	ALPHA (6)	Z		PH1 .020 +0.000

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3.0093 3.0101 3.0101 3.0101 55.000 4.000 1.250 11 Š ž Š ₹ ₹ SPDBRK -L-ELVN -MACH PARAMETRIC DATA 551.11 550.87 550.87 **= 550.87** 10.000 16.300 -4.000 RUDDER = BDFLAP = R-ELVN = ٥. AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP LWR **s** 599.89 600.07 - 600.07 600.07 O O O O -3.858 MACH = 1.2470 -3.834 MACH = 1.2474 .202 MACH # 1.2474 = 1.2474 DEPENDENT VARIABLE CP DEPENDENT VARIABLE CP DEPENDENT VARIABLE CP DEPENDENT VARIABLE CP 1076.6800 IN. XO .0030 IN. YO 375.0000 IN. ZO MACH 4.280 ALPHA (1) = -4.015 BETA (1) = # (2) : (\$) XMRP YMRP ZMRP BETA -4.018 BETA ALPHA (1) = -4.007 BETA SECTION : 1185DY FLAP LOWER SECTION (1) BODY FLAP LOWER SECTION (1)BODY FLAP LOWER SECTION (1) BCDY FLAP LOWER REFERENCE DATA . 1546 . 3458 2690,0000 S0.71. 474.8000 IN. 936.0590 IN. .0295 1.0180 1.0460 1.0183 1.0450 1.0180 1.0460 1.0180 1.0450 .22C4 .1633 .0788 .0331 . 035 .8733 .11:6 .07:8 . 2602 . 1670 ALPHA (1) = ALPHA : 2) #3,000 #3 .000 46.000 PHI .000 40.000 .000 40.000 SPEF = LRE7 = BREF = SCALE = K/1.B i. X/LB K/La X/LB

	Ų		E E	ATED F	1553Kc	JRE D	ATA -	0A1#	TABLE ATER PRESSURE DATA - DAIWB (AMES 11-073-1)	S 11-0	73-1							PAGE	PAGE 6029	
UAIR 13 7 CB	Ď.				AMES	11-0,	73(0A)	148)	AMES 11-073(04148) -140A/B/C/R ORB BODY FLAP LMR	/C/R 0	78 BQC	7 FL	AP LWR			(XE8658)				
PHA (8)	0.	.040 BETA		(2) =	•	. 189	MACH	11	1.2470	O		ii M	599.89	۵.		551.11	RN/L	•	3.0093	₩.
SECTION (1'BODY FLAP LOWER	1.BODY F	LAP LOWER	ſr			DEPEN	DENT 1	VAR 1 A	DEPENDENT VARIABLE CP											
X/LB	1.0180	1.0460																		
PH! .000 40.000	. 2763 . 1475	. 2195 . 0700																	1	
ALPHA (2)	B.	.037 BETA		(3) =	ż	261	MACH	Ħ	4.251 MACH # 1.2470	0		#	599.89	۵		551.11	1	•	3.0093	v n
SECTION (1) BODY FLAP LOWER	: JBCDY F	TLAP LOWER	œ			DEPEN	DENT	VARIA	DEPENDENT VARIABLE CP											
X/LB	6.0	1.0460																		
1Hd 000. 000.04	. 1623 . 1623	.074													٠		,			
ALPHA (3) =		3.928 BE1	BETA (=	-j	-3.861	MACH		= 1.2467	0	_	ED H	599.84	۵.	•	551.34	RN/L	•	3.0120	.
SECTION (1)BCDY FLAP LOWER	1 18CD4 1	FLAP LOWE	œ			CEPEN	DENT	VARIA	CEPENDENT VARIABLE CP											
x/La	1.0:80 :.0460	.0460																		
PH1 .000 .000	.3536	. 1714 1714														(i		č	ç
ALPHA (3)	11	3.929 BE.	BETA ((2) =	•	. 192	MACH		■ 1.2467	0 4	_	g)	599.84	۵.	•	551.34	Š.		9. o.e.	,
SECTION (1) SCOY FLAP LOWER	ACCE (1	FLAP LOME	Ω;			DEPEN	DENT	VAR1	DEPENDENT VARIABLE CP											
X/LB	1.0190	1.0190 1.0460																		
PH1 .003 40.000	.3583 .458	. 2802 1448										'	į	C	•	ž.	8		3.0120	Q

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4.251 MACH # 1.2467 DEPENDENT VARIABLE CP

3ETA (3) =

3.933

SECTION (1) BODY FLAP LUMER

1.0180 1.0460

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TABULATED PRESSURE DATA - DAIMB (AMES 11-073-1) DATE 13 FEB 76

AMES 11-073(0A148) -140A/B/C/P ORB BCDY FLAP LMR

O 4.259 MACH = 1.2454 DEPENDENT VARIABLE CP BETA (3) = 11.925

SECTION (1'BODY FLAP LOWER 1.0180 1.0460 E)

. 3963 . 2331 9H1 .000 .5.000

.. % 552.04

= 3.0114

PAGE 5031

DATE 13 FEB	75 75	TABULATED		RESSURE	DATA	- 0A	PRESSURE DATA - 0A148 (AMES 11-073-1	5 11-073	2-1						Ĉ.	PAGE 5	5032
				AMES 11-073(0A148)	-0730	0A148) -140A/B	-140A/B/C/R ORB	3 B0DY	BODY FLAP LWR	Œ.			(XE8659)	50.0	AUS 75	- n
	REFERENCE DATA												PAR	PARAMETRIC E	DATA		
5255 EPEF # 269 BPEF # 47 SCALL # 93	2690.0000 50.FT. XP 474.8000 IN. YP 926.06.0 IN. ZP 0300	XMRP = YMRY	2 17	. 6900 . 0000 375. 0000	<u>zzz</u>	200					医野虾	RUDDER = BDFLAP = R-ELVN =	221	10.000 16.300 1-4.000	SPDBBK # L-ELVN # MACH #	មួ មានក	55 1.1.00 1.1.00 1.1.00
~.	-4.026 BETA	-	ŧ	-3.831	MACH		1.1006	0		600.08	88	a.		707.67	17NG		3.1805
SECTION (1	1) BODY FLAP LOWER			d30	ENDEN	T VAR	DEPENDENT VARIABLE CP										
אירB ו	.0180 1.0460																
9HG 000000000000000000000000000000000000	. 1523 . 1533 . 0593																
ALPHA (1) =	-3.894 BETA	(2)	n	.203		MACH	= 1.1006	0	IJ	600.08	90	۵.		707.67	i K	m m	3.1805
SECTION (1	I BODY FLAP LOWER			930 930	ENDEN	T VAR	DEPENDENT VARIABLE CP										
X/LB 1	.0185 1.0450																
PH1 2000.54	.2589 .1958 .1037 .0694																
ALPHA (I) =	-4.013 BETA	3	H	4.281		MACH	= 1.1006	σ	#	600.08	98	۵.		707.67	1/8	H M	3.1805
SECTION ()	11800Y FLAP LOWER			a. C	ENDEN	T VAR	DEPENDENT VARIABLE CP										
: פריא	1.0:80 1.0460																
PHI , 838 48, 833	.2328 .1552 41+0. 0311.																
ALPHA (2) *	.051 BETA	2	н	-3.852		MACH	= 1.1008	o	#	600.03	03	a .		707.43	%	M	ð
1 1 NC11035	DIBOCY FLAP LOWER			430	ENDEN	T VAR	DEPENDENT VARIABLE CP										
X/LB 1	.0180 1.0460																
PHI .000 .000	.2860 . 1910 .2415.																

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DATE 13 FEB 76 TASCLATED PRESSURE DATA - DAIMB (AMES 11-073-1)
ALPHA (2) = .053 BETA (2) = .191 MACH = 1.1008 Q = 600.03 P = 707.43 PN/L = 3.1794
SECTION (1)BCDY FLAP LOWER DEPENDENT VARIABLE CP
X/LB 1.0:60 1.0460
ALPHA (2) = .049 BETA (3) = 4.255 MACH = 1.1008 Q = 600.03 P = 707.43 FN/L = 3,3794
SECTION (1)800V FLAP LOWER DEPENDENT VARIABLE CP
X/LB 1.0180 1.0463
1Hd 7181. 2485. 000. 7181. 2485. 000.04
ALPHA (3) = 3.985 EETA (1) = -3.853 MACH = 1.1009 Q = 500.17 P = 707.44 FN/L = 3.1827
SECTION (1780DY FLAP LOWER DEPENDENT VARIABLE CP
X/LB 1.019C 1.045D
PH1 .3701 .2368
ALPHA (3) = 3.984 BETA (2) = .193 MACH = 1.1009 Q = 500.17 P = 707.44 PA/L = 3.1827
SECTION (1) BODY FLAP LOWER DEPENDENT VARIABLE CP
X/LB 1.0180 1.0450
ALPHA (3) = 3.96E BETA (3) = 4.249 MACH = 1.1009 Q # 600.17 P = 707.44 PM/L # 3.1827
SECTION (1) BODY FLAP LOWER DEPENDENT VARIABLE CP
X/LS 1.0193 1.6456
149 . 000 . 3659 . 030 . . 000 . 000 . 000 . 000 . 000 . 000 . 000 . 000 . 000 . 000 . 000 . 000 . 000 . 000 . 000 . 000 . 000 . 000 .

DATE 13 FEB 76 TABULATED PRESSU	PRESSURE DATA - DAIVB (AMES 11-073-1)	1-073-1	-			ES C	유 833
AMES	AMES 11-073(04:48) -1404/8/C/R 028 RODY FLAP LWR	R 078 PO	DY FLAP LWR		CKESSES		
ALPHA (4) = 7.909 BETA (1) = -7.8	-2.848 MACH = 1.0993	ø	± 593.26	۵.	- 708.35	1/2	3.1817
SECTION () BODY FLAP LOWER	DEPENDENT VARIABLE CP						
X/L9 1.038C 1.0460							
149 1504, 1500, 1435, 100.04							
ALPHA (4) = 7.912 BETA (2) = .1	.189 МАСН = 1.0993	o	539.26	Ω	■ 708.35	7	* 3.1817
SECTION (1)800Y FLAP LOWER	DEPENDENT VARIABLE CP						
X/LB 1.018C 1.0463							
123 1000 - 3545 125 10000 - 3545 125							
ALPHA (4) = 7.911 BETA (3) = 4.8	v.2+7 MACH = 1.0993	G	₹ 599.26	a .	₹ 708.35	7.78	3.1817
SECTION (1)BODY FLAP LOWER	DEPENDENT VARIABLE CP						
X/L8 1.0180 1.0460							
1895 - 1850 - 1858 - 1875 - 18							
ALPHA (5) = 11.959 BETA (1) = -3.832	332 MACH * 1.0972	o	· 598.33	a.	4 710.00	ž	3.187B
SECTION (1)900Y FLAP LOWER	DEPENDENT VARIABLE CP						
X/LB 1.0180 1.0+50							
1Hd 200. 1Hd 1Hd 1Hd 1Hd							
ALP4A (5) = 11.872 BETA (2) = .1	.197 MACH = 1.0972	a	= 598.33	<u>α</u>	4 739,50	3	* 3.1978
SECTION (1)BODY FLAP LOWER	DEPENDENT VARIABLE CP						
X/LB 1.0180 1.0450							
1Hd 0415. 6352. 000. 0415. 8395 . 000.04							

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TABULATED PRESSURE DATA - DAI48 (AMES 11-073-1)

AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP LWR

C 4.258 MACH = 1.0972 BETA (3) = ALPHA (5) = 11.865

DEPENDENT VARIABLE CP

SECTION (1) BODY FLAP LOWER

1.0180 1.0450 X/LB

.3129 .5204 PH1 .000 40.000

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		AMES 11-	07310A14	1- (8)	AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP LMR	R ORB BO	0 년	AP LWR			(XE8060))) (05 AUG 75	3	50
REFERENCE DATA										PAR	PARAMETRIC DATA	DATA		
SREF = 2690.0000 SQ.FT. XMRP LREF = 474.8000 IN. YMRP BREF = 936.0680 IN. ZMRP SCALE = .0300	0 0 6	1076.6800 .0000 375.0000	N. X N. X N. X N. X N. X						RUDDER = BDFLAP = R-ELVN =	==1	10.000 16.300 -4.000	SPOBRK = L-ELVN = MACH =	ω -	55.000 4.000 .900
ALPHA (1) = -4.026 BETA	= = =	-3.841	MACH	•	. 89803	0	. U I	598.77	۵		1060:7	RN/L	B	3.5531
SECTION (!) BODY FLAP LOWER		3430	DEPENDENT VARIAPLE CP	RIAPL	8		•							
X/LB 1.0180 1.0460														
PH1 .000.2805.0858 .00000+														
ALPHA (1) = -4.025 BETA	ر ا (ئ ا	.202	MACH	w. "	.89803	0	H I	598.77	۵.		1060.7	RN/L		3.5631
SECTION (1) BODY FLAP LOWER		3d30	DEPENDENT VARIABLE CP	RIABLE	G C									
X/LB 1.6:30 1.0460														
PH1 .000 .3170 .1048 .0000 .418														
ALPHA (1) = -3.984 BETA		4.285	MACH	*	.89803	C	п	598.77	.		1060.7	RN/L		3.5631
SECTION (1) BODY FLAP LOWER		3 6 30	DEPENDENT VARIABLE CP	RIABLE	a									
X/LB 1.0190 1.0460														
PHI 000. 4365. 000. 00.00.04														
ALPHA (2) = .056 BETA	= = =	-3.856	MACH	#	.89813	0	E)	598.75	۵		1060.5	RN/L		3.5631
SECTION (1) BODY FLAP LOWER		3430	DEPENDENT VARIABLE CP	RIABLE	G C									
X/LB 1.0180 1.0460														
PH1 .000 .2896 .0926 .00.000 .2080 .0169														

	DATE 13 FEB 75	TA	TABULATED		ESSURE 1	JATA -	0A14E	PRESSURE DATA - OAI48 (AMES 11-073-1)	1-073-1	_					Œ	PAGE 6037	5037
				⋖	MES 11-1	17310A1	- (84	AMES 11-07310A148) -140A/B/C/R ORB BODY FLAP LMR	R ORB B	ODY F	LAP LWR			(XE8080)			
	ALPHA (2) = .056	BETA	<u>6</u>	H	. 186	MACH	u	.89813	o	M	598.75	۵	,	1060.5	RN/L		3.5631
	SECTION (1) BODY FLAP LOWER	OWER			13430	DEPENDENT VARIABLE CP	'AR I AE	RE CP									
	X/LB 1.0180 1.0460	0												٠.			
	PHI 300. - 000 3141 000.04	ታመ												··· ••			
	ALPHA (2) = .048	BETA	(23)	Ħ	4.260	MACH		.89813	ð		598.75	۵.		1080.5	FN/L	•	3.5631
	SECTION (1) BODY FLAP LOWER	OMER			DEPE	DEPENDENT VARIABLE CP	'AR I AE	RE CP									
	X/LB 1.0180 1.0460	0															
	PHI .000. 2978 .0991 .000.54	g-mi g-mi							· .								
	ALPHA (3) = 3.975	BETA	:	u	-3.851	MACH	u	.89723	o		597.99	٩		1061.2	RN/L		3.5607
	SECTION (1)BODY FLAP LOWER	OWER			DEPE	DEPENDENT VARIABLE CP	AR I AE	AE CP									
	X/LB 1.0180 1.0460	0															
	PHI .000 .3407 .1113 40.000 .2391 .0285	wπ															
	ALPHA (3) = 4.019	BETA	(2)	B	. 193	MACH	Ħ	.89723	Ö		597.99	۵		1061.2	RN/L	#	3.5607
	SECTION (1) BODY FLAP LOWER	OWER			13630	DEPENDENT VARIABLE CP	'AR I AE	RE CP									
	X/LB 1.0180 1.0460	6															
	PH1 . 744E . 000 . 3447 . 1142	໙.≄															
QR)	3.94	BETA	(3)		4.252	MACH	#	.89723	ø		597.99	a		1061.2	RN/L	*	3.5607

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SECTION (1)BODY FLAP LOWER

1.0180 1.0450

.3470

PH1 .000 40.000

DATE 13 FEB 76 TABULATED PRE	PRESSURE DATA - 04148 (AMES 11-073-1)	1-073-1		•			PAGE 5038
A CONTRACTOR OF THE CONTRACTOR	AMES 11-073(04148) -1404/8/C/R ORB BODY FLAP LMR	ORB BODY FL	AP LWR		(XE3G50)	•	
ALPHA (4) = 8.020 BETA (1) =	-3.857 MACH = .89903	in II	599.30	۵.	= 1059.3	RN/L	3.565 4
SECTION (1'BODY FLAP LOWER	DEPENDENT VARIABLE CP						
X/LB 1.0180 1.0450							
PH1 .000 .3788 .1250 40.000 .2455 .0317		-					
ALPHA (4) = 8.028 BETA (2) =	.194 MACH = .89903	10 11	599.30	Δ.	1059.3	RN/L	= 3.565₩
SECTION (1) BODY FLAP LOWER	DEPENDENT VARIABLE CP						
X/LS 1.0130 1.0460							
PH1 .000 .3828 .1260 +0.000 .2356 .0103							
ALPHA (4) = 8.024 BETA (3) =	4.248 MACH = .89903	, a	599.30	Q .	= 1059.3	RN/L	* 3.5654
SECTION (1)BODY FLAP LOWER	DEPENDENT VARIABLE CP						
X/LB 1.0180 1.0460							
PH1 .500 .3870 .1295 +0.000 .23130066							
ALPHA (5) = 11.919 BETA (1) = -	-3.839 MACH = .89963	ii n	593.94	Q.	= 1059.0	RN/L	3.5645
SECTION (!) BODY FLAP LOWER	DEPENDENT VARIABLE CP						
X/L9 1.0180 1.0460							
PH{ .000 .4046 .1256 .000 .2546 .0253							
ALPHA (5) = 11.929 BETA (2) =	.180 MACH = .89963	, a	599. gu	۵	= 1059.0	RN/L	3.5645
SECTION (1) BODY FLAP LOWER	DEPENDENT VARIABLE CP						
X/!_B 1.0180 1.0460							
PH: .030 +970 :1330 +0.030 . 2599 .0042							

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DATE 13 FEB 76

TABULATED PRESSURE DATA - OAI48 (AMES 11-073-1)

ANES 11-073(0A148) -140A/B/C/R ORB BODY FLAP LMR

o MACH = .89963 DEPENDENT VARIABLE CP 4.268 BETA (3) = ALPHA (5) = 11.915

SECTION : I'BODY FLAP LOWER

1.0180 1.0460

х/гв

.4133 .1358 .2416 -.0110 PH1 .000 40.000

PAGE 6039

(XE8660)

RN/L = 3.5645 1059.0

= 599.94

PAGE 6040	(XEBG61) (05 AUG 75)
TABULATED PRESSURE DATA - DAI48 (AMES 11-073-1)	AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP LWR
DATE 13 FEB 76	

PAGE 6040

	55.000 4.000 .600	1.184.1			•	4.8411				4.8411				4.8411			
DATA	SPOBRK = L-ELVN = MACH =	RN/L				RN/L				RN/L				RN/L			
PARAMETRIC DATA	10.000 16.300 -4.000	2386.5				2386.5				2386.5				2386.5			
•		•				Ħ								•			
	RUDDER = BOFLAP = R-ELVN =	۵				۵				٥				α.			
	•	= 594.21				≈ 594.21				594.21				594.21			
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		ø				O				o				0			
		59638	DEPENDENT VARIABLE CP			€ .59638	DEPENDENT VARIABLE CP			= .59638	DEPENDENT VARIABLE CP			* .59638	DEPENDENT VARIABLE CP		
	000	T	VAR			1	VAR			т	VAR			т	VAR		
	N. X.	MACH	ENT			MACH	ENT			MACH	ENT			MACH	ENT		
	222		PEND				SENC				ON 3				ONLIC		
	1076.6900 .0000 375.0000	-7.854	130			-3.832	130			.201	DEF			4.282	930		
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		_				ŝ				ŝ				3			
⋖	XMRP YMRP ZMRP	BETA	œ			BETA	œ			BETA	œ			3ETA	œ		
REFERENCE DATA	<u>.</u>	36	OME.	Ö	£ 1.	8	SHE.	00	83.53	BE	340	Ú	W. co	띪	다. 라	90	ភិ ក
NCE	SD. FT.	£	AP L	1.0460	.0013	<u>0</u>	AP L	1.0460	. 0028 0563	Ö	AP L	1.0460		gn	AP L	1.0460	.0049 0676
ERE	8888	-4.014	7			-3.998	7			3.980	4			-3.999	7.		
75	9.030	7	800	1.0180	.2163 .1303	.,	900	1.0190	. 2262 . 1380	ï	900	1.0180	2485 193	7	800	.0189	.2312 .1329
	2690.0000 474.8000 936.0680	"		-	• •	"	1 3	-:	• •	#	<u>.</u>	•-	• •	#			• •
	* * * *	-	Š		000	••	Š		390	_	S		800		8		88
	SREF LREF BREF SCALE	ALPHA (1)	SECTION (1) BODY FLAP LOWER	X/LB	747 000 40.000	ALPHA (1)	SECTION (1) BODY FLAP LOWER	X/LB	FH1 .300 40 .000	ALPHA (1)	SECTION (1) BODY FLAP LOWER	X/LB	PH1 .000 .40.000	ALPHA (1)	SECTION (1) BODY FLAP LOWER	X/LB	PH1 .000 40.000

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AT 19 Comment of the
DATE 13 FEB 76 TABULATED F	TABULATED PRESSURE DATA - OAI48 (AMES 11-073-1	11-073-1	_			D	PAGE 6041
	ANES 11-073(0A148) -140A/B/C/R ORB BODY FLAP LMR	7R ORB BO	OY FLAP LH	œ	(XE8G61)	•	
ALPHA (1) = -4.005 BETA (5) =	8.352 MACH = .59538	o	= 594.21	۵.	= 2386.5	RN/L	# #.0£!!
SECTION (1)BODY FLAP LONER	DEFENDENT VARIABLE CP						
X/LB 1.0180 1.0460							
PH1 .000 .2216 .0050 40.000 .11070752						;	
ALPHA (2) * .015 BETA (1) =	-7.895 MACH = .59624	o	= 593.85	C	= 2386.1	S.	# # P
SECTION (1)BODY FLAP LOWER	DEPENDENT VARIABLE CP						
X/LB 1.0180 1.0+60							
PH! .000 .2514 .0081 .000 .15776413							
ALPHA (2) = .022 BETA (2) =	-3.851 MACH = .59624	ø	= 593.85	۵	= 2386.1	RN/L	= 4.8452
SECTION (1)BODY FLAP LCKER	DEPENDENT VARIABLE CP						
X/LB 1.0180 1.0460							
PH1 .COC . 2379 .CCG 40.GCG .1615CGG9							
ALP4 (2) = .105 BETA (3) =	.189 MACH = .59624	o	s 593.85	Q.	± 2386.1	RN/L	#. 9452
SECTION (1)BODY FLAP LOWER	DEPENDENT VARIABLE CP						,
X/LB 1.0180 1.0460							•
PHI .925 .2449 .0115 40.000 .13535634							
ALPHA (2) = .103 BETA (4) =	4.264 MACH * .59624	o	= 593.85	۵	= 2385.1	1 2/L	#.8±52
SECTION (1)BODY FLAP LOWER	DEPENDENT VARIABLE CP						
X/LB 1.0180 1.0453							
PHI .000 .2+23 .0173 .00.000 .12300720							

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DATE 13 FEB 76 TABULATE	TABULATED PRESSURE DATA - DAIMB (AMES 11-073-1)			PA
	AMES 11-073(04148) -140A/B/C/R ORB BODY FLAP LMR	FLAP LWR	(XEBG61)	
ALPHA (2) = .094 BETA (5)	= 8.317 MACH = .59624 0 =	593.85 P	- 2385.1	EN/L
SECTION (1) BODY FLAP LOWER	DEPENDENT VARIABLE CP			
X/LB 1.0180 1.0450				
FH1 .000 .2550 .0099 40.000 .11550809				
ALPHA (3) = 4.024 BETA (1)	= -7.901 MACH = .59706 0 =	595.26 P	■ 2385.4	RN/L
SECTION I 1) BODY FLAP LOWER	DEPENDENT VARIABLE CP			
X/LB 1.0180 1.0460				
PHI .000 .2707 .0091 40.000 .17830399				
ALPHA (3) = 4.026 BETA (2) =	= -3.849 MACH = .59706 0 =	595.26 P	• 2385.4	RN/L
SECTION (1)BODY FLAP LOWER	DEPENDENT VARIABLE CP	•		
X/L8 1.0190 1.0460				
149 1810 - 2502 - 0016 1910 - 25171 - 001094				
ALPHA (3) = 4.034 BETA (3)	= 0 39706 0 = 1	595.26 P	= 2385.4	FN/L
SECTION I 11800Y FLAP LOWER	DEPENDENT VARIABLE CP			
X/LB 1.0180 1.0450				
PH1 .000 .2637 .0146 40.0004980543				
		1 1 1 1 1 1	-	

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PAGE 6042

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59706

4.254 MACH

ALPHA (3) = 4.044 BETA (4) =

SECTION (1) BODY FLAP LOWER

1.0180 1.0460

.1358 -.0582

DEPENDENT VARIABLE CP

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करा र प्रकारकामस्य अने क्रान्य अध्यास्थान के प्रकारका के अनुस्थान के समित्र के सम्बद्धिक के अनुस्थान के अने कि		
प्रस्ति अभिन्नका केन्द्रि		
का प्रदेश हैं के की किया क		
(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)		

DATE 13 FEB 75	TABULATED PR	PRESSURE DATA - DAIMB (AMES 11-073-1)	.5 11-073-1	^				PAGE 6043
		AYES 11-07310A148) -140A/B/C/R ORB BODY FLAP LIR	1/C/R 0RB B	DODY FLAP LUR		(XEBGE1)	•	
A.PHA (3) =	4.047 BETA (5) =	8.299 MACH * .59706	a	• 595.26	۵	* 2385.4	RAYL	* 4.8521
SECTION (1)BODY FLAP LONER	DY FLAP LOWER	DEPENDENT VARIABLE CP						
X/L9 1.0180	30 1.0460							
PHI . 000 . 2801 . 000.04	4710. 10 370695							,
ALPHA (4) =	8.028 BETA (1) =	-7.897 MACH = .59720	a	- 595.49	۵	= 2385.3	1	#
SECTION / 11BODY FLAP LONER	DY FLAP LOWER	DEPENDENT VARIABLE CP						
X/LB 1.0190	30 1.0450							
PH1 . 000 . 2878 +0.000 . 1889	78 .0157 890269							
ALPHA (4) =	8.037 BETA (2) =	-3.847 MACH = .59720	0	= 595.49	C	= 2385.3	RN/L	4.863
SECTION (1) BODY FLAP LOWER	DY FLAP LOWER	DEPENDENT VARIABLE CP						
X/LB 1.0180	80 1.0460							
PHI . C00 . 2915 . L0. C00 . 1833	15 .0237 390300							
ALPHA (4) =	8.042 8ETA (3) =	. 196 MACH = .59720	0	= 595.49	۵.	2385.3	RN/L	\$000. *
SECTION (1)BOOY FLAP LOWER	DY FLAP LOWER	DEPENDENT VARIABLE CP	-					
X/LB 1.0180	80 1.0460							
PH1 . 000 . 2919 . 40.000 . 1704	19 . 0293 04 0391							}
ALPHA (4) =	7.960 BETA (4) =	4.251 MACH = .59720	a	- 595.49	۵	= 2385.3	7×8	#. 95
SECTION (1)BODY FLAP LOWER	DY FLAP LOWER	DEPENDENT VARIABLE CP						
X/LB 1.0180	80 1.0%50							
PH1 .000 .2969 +0.000 .1558	69 .0303 580518	·						

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DATE 13 FEB 75	TABULATED I	TABULATED PRESSURE DATA - OAI48 (AMES 11-073-1)			PAGE 5044
		AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP LMR	300Y FLAP LWR	(XEB061)	
ALPHA (4) = 7.955	BETA (5) =	8.305 MACH = .597₹0 0	* 595.49 P	= 2385.3 Rh	RN/L = 4.8534
SECTION (1) BODY FLAP LOWER	OWER	DEPENDENT VARIABLE CP			
X/LB 1.0180 1.0460					
PHI .000 .3008 .0321 .00.000 .15460565	181 201				
ALPHA (5) = 11.943	BETA (1) =	-7.853 MACH = .59660 Q	99.44 P	- 2386.0 FN	RN7L * 4.8+39
SECTION (1)BODY FLAP LOWER	OWER	DEPENDENT VARIABLE CP			
X/LB 1.9180 1.0450	00				
PHI .000 .3147 .0355 40.000 .26570013	<u>រក</u> ្ត ក				
ALPHA (5) = 11.962	BETA (≥) *	-3.827 MACH * .59660 0	44.466 =	= 2386.0 RN/L	/L + 1.9-39
SECTION (1)BODY FLAP LOWER	OWER	DEPENDENT VARIABLE CP			
X/LB 1.0180 1.0460	ç		-		
1610. 951E. 000.04	CD c:		-		
ALPHA (5) = 11.967	BETA (3) =	.197 MACH * .59660 0	a 594.44	= 2385.0 FRVL	1. * 4.8439
SECTION 1 17800Y FLAP LOVER	OLER	DEPENDENT VARIABLE CP			
X/LB 1.0180 1.0460	a				•
PHI .000. .3191 .000. .0301.	9				•
ALPHA (5) * 11.963	BETA (4) =	4.259 MACH = .59660 0	a 1365 .	- 2386.0 FN/L	1. a. 4.9436
SECTION 1 11800Y FLAP LOVER	ONER	DEPENDENT VARIABLE CP			
X/LB 1.0180 1.0450	0				
PH1 .000 .3216 .0W57 +0.000 .17560W39	6 60				

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	(XEBG61)	= 2386.0
		۵
	AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP LUR	+4.46G =
-	800	"
1-673-	R ORB (ø
FABULATED PRESSURE DATA - DAI48 (AMES 11-073-1)	140A/B/C/	.59660
4148	â	
ATA - 0/	7300A148	MACH
PRESSURE D	AMES 11-0	BETA (5) = 8.316 MACH = .59560
LATED P		53
ABU		۔۔
p		BETA
		11.951
9 75		u
S FEB		íri
DATE 13		AHO!!A

594.44 σ 8.316 MACH = .59560

RN/L = 4.8439

PAGE 5045

DEPENDENT VARIABLE CP ALPHA (3) = 11.951 BETA (5) = SECTION (1)BODY FLAP LOWER 1.0180 1.0460 хле

PH1 . 830 40. 880

.3234 .0508 .1697 -.0369

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OXE86621 05 AUG 75 1	PARAMETRIC DATA	RUDDER = 5,000 SPDBRX = 55,000 BOFLAP = 16,300 L-ELVN = -4,000 R-ELVN = -4,000 MACH = 1,400	P = 442.06 RN/L = 2.5210				P = 442.65 PN/L = 2.9210				P = 442.06 FN/L = 2.9210				P = 442.06 FN/L = 2.9172				
AP LWR			599.90				599.99				599.99				599.78				
BY FL!			*				26				2G *				# 23				
AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP LMR			ø				ø				Œ				o				
VC/R															J				
140A/E			1.3925	LE CP			1.3925	LE CP			1.3925	S H			1.3522	E CP			
- (8+				ARIAB				ARIAB				AR I ABI			*	AR I ABI			
7310A1		N. X0 N. X0 N. X0	MACH	DEPENDENT VARIABLE			MACH	DEPENDENT VARIABLE			MACH	DEPENDENT VARIABLE			MACH	DEPENDENT VARIABLE			
5 11-0		1 0000	-3.949	DEPEN			.195	DEPEN			٠٤.280	DEPEN			-3.867	DEPEN			
AMI.		1076.6800 .0000 375.0000													Ņ				
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	٨	XMRP YMRP ZMRP	BETA (œ			BETA (ρĸ			BETA (œ			8£7A (œ			
	REFERENCE DATA	SS. T.		P LOJE	1.0460	.1590		11900Y FLAP LOWER	1.0460	.1512		3401 d	1.0450	. 1517		S LOWE	1.0450	2106	072 5
	FEREN	8888 8888 8888	-4 . C59	Y FLA			-3.922	Y FLA			-3.933	Y FLA			. G2	Y FLAS			
	분	2690.0000 474.8000 936.0580	ř	SECTION (11800Y FLAP LOWER	1.0180	1870.	11	11900	1.0180	.1695 .0838	H .	SECTION (1) BODY FLAP LOWER	1.0180	.1782 .0756		SECTION (1) BODY FLAP LOWER	1.0180	.236+	
		***	1	ž		90	(!)	NO		000	(1)	5		0	<u>.</u>	<u> </u>		8	8
		SPEF LIPEF BPEF SCALE	ALPHA (1)	SECTI	X/LB	PHI .000 43.000	ALPHA (;)	SECTION (X/LB	PHI . 000 40. 000	ALPHA (1)	SECTI	X/LB	РН1 .000 .40.0	ALPHA (2)	SECTI	a//x	9H1	, , ,

PAGE 5045

TABULATED PRESSURE DATA - DAIYB (AMES 11-073-!)

DATE 13 FEB 76

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PH1 .000 40.000

.2283

2.9189

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442.29

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= 599.88

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4.246 MACH = 1.3919 DEPENDENT VARIABLE CP

ALPHA (3) = 3.963 BETA (3) =

SECTION (1) BODY FLAP LOWER

1.0180 1.0450

87/X

DATE 13 FEB 78

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	AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP LAR	R ORB BODY	FLAP LAR		(XEBGB2)		
ALPHA (4) = 7.927 BETA (1) =	-3.865 MACH = 1.3932	. 0	600.00	۵.	* 441.53	7 8	* 2.9182
SECTION (1.BODY FLAP LOWER	DEPENDENT VARIABLE CP						
X/LB 1.0180 1.0450							
3192" 6024; 000° 0192" 6024; 000° 00°04							
ALPHA (4) = 7.932 BETA (2) =	.179 MACH = 1.3932	a O	600.00	Ω.	# 441.59	7.3	2 .9182
SECTION (1180DY FLAP LOWER	DEPENDENT VARIABLE CP						
*/L9 1.0180 1.050							
7202* 2584, 000,04 8358, 2585, 000,04							
ALPHA (4) = 7.933 BETA (3) =	4.245 MACH = 1.3932		600.00	a	± 441.59	1/8	* 2.9182
SECTION (1)BODY FLAP LOWER	DEPENDENT VARIABLE CP						
X/LB 1.0180 1.0450							
FH1 .00C .4282 .3616 .00C.00C							
ALPHA (5) = 11.912 BETA (1) =	-3.854 MACH + 1.3916	* 3	599.87	- (,,	a 442.53	Ž.	# 2.9.99
SECTION (1180DY FLAP LOWER	DEPENDENT VARIABLE CP						
X/28 1.0180 1.0+50							
PHI .000 .022 .000 .04 .000.00 .3765 .2549							
ALPHA (5) # 11.921 BETA (2) =	.184 MACH = 1.3916		599.87	۵	■ 4×2.53	.1 Z	* 2.9199
SECTION 1 1180DY FLAP LOWER	DEPENDENT VARIABLE CP						
X/LB 1.0180 1.0450							
149 . 000 . 1563 . 000.04 . 3783 . 2699							

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76
13 FEB
DATE

TABULATED PRESSURE DATA - DAIY8 (AMES 11-073-1)

AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP LWR

599.87

G

(XE8662) 442.53

E Z

2.9199

= 1.3916 4.258 MACH BETA SECTION (1) BODY FLAP LOWER 1.0180 1.0460

(3) =

ALPHA (5) = 11.919

DEPLINDENT VARIABLE CP

ALPHA (6) = 15.912 BETA (1) = .5182

PHI .000 40.000

X/LB

= 1.3897 -3.830 MACH

DEPENDENT VARIABLE CP

G

PN PN

= 443.71

SECTION (1) BODY FLAP LOWER

1.0180 1.0450 X/LB .4860 .6118 .4558

.184 MACH = 1.3897 (S) BETA ALPHA (6) = 15.924

= 443.71

599.83

DEPENDENT VARIABLE CP SECTION (1)BODY FLAP LOWER

1.0180 1.0450 e1/x

.6105 .4897 .4613 .3358 40.000

MACH 4.288 BETA ALPHA (6) = 15.916

₹ L

443.71

599.83

DEPENDENT VARIABLE CP SECTION (1) BODY FLAP LOWER

1.0180 1.0460 X/LB

.6134 .4492

PAGE 6049

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And the boy tree blades because the bold of the body to be body to

* 3.0241 SPOBRK = L-ELVN = MACH = FIN 552.28 5.000 16.300 -4.000 RUDDER -BOFLAP -R-ELVN -600.1 ø DEPENDENT VARIABLE CP -3.840 MACH 1076.6800 IN. XO .0000 IN. YO 375.0000 IN. ZO BETA (1) = XMRP YMRP ZMRP REFERENCE DATA SECTION (1) BODY FLAP LOWER 2590.0000 SO.FT. 471.8000 IN. 935.0680 IN. 1.0180 1.0460 ALPHA (1) = -4.050 SREF = LREF = BREF = SCALE = X/LB

552.28 600.11 ø .196 MACH = 1.2459 ALPHA (1) = -3.916 BETA .2003 .1470 .0272 -.0169 .000 .000 Ī

DEPENDENT VARIABLE CP SECTION (1) BODY FLAP LOWER

1.0180 1.0460 X/LB

ø = 1.2459 4.275 MACH 33 BETA ALPHA (1) = -3.923 .0593

DEPENDENT VARIABLE CP SECTION (1)BODY FLAP LOWER

1.0180 1.0460 . **1**401 . 0214 . 1952 . 0690 *0.000

X/LB

552.51 O = 1.2451 DEPENDENT VARIABLE CP MACH -3.864 **EETA** SECTION (11800Y FLAP LOWER ±0. ALPHA (2)

3.0238

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3.024

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55.38

1.0180 1.0460 X/LB

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DATE 13 FEB 76 TABULATED PRE	TABULATED PRESSURE DATA - OA148 (AMES 11-073-1)	1-073-1						PAGE 5051	=
MA	AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP LMR	R 0RB B0	OY FLAP LW	~	S	(XE8653)			
ALPHA (2) = .050 BETA (2) =	.180 MACH = 1.245!	a	= 599.58	۵	= 552.51		RN/L	3.0	3.0238
SECTION (1) BODY FLAP LOWER	DEPENDENT VARIABLE CP								
X/LB 1.0180 1.0460									
PH1 .000 .2603 .1961 40.000 .1174 .0561	•					•			
ALPHA (2) = .046 BETA (3) =	4.256 MACH = 1.2451	o	599.58	٥	- 552.51		RN/L	3.0	3.0238
SECTION (1) BODY FLAP LOWER	DEPENDENT VARIABLE CP								
X/LB 1.0180 1.0460							·		
PH1 .000 .2438 .1869 .40.000 .1298 .0528									
ALPHA (3) = 3.990 BETA (1) = -	-3.864 мАСН = 1.2448	ø	■ 599.34	۵.	= 552.51	.51	RN/L	3.0	3.0213
SECTION (1)BODY FLAP LOWER	DEPENDENT VARIABLE CP								
X/LB 1.0180 1.0460									
PH1 .000 .3491 .2532 46.000 .2313 .1376									
ALPHA (3) = 3.991 BETA (2) =	.185 MACH = 1.2448	O	= 599.34	۵.	552.51		RY.	* 3.0	3.0213
SECTION (1) BODY FLAP LOWER	DEPENDENT VARIABLE CP								
X/LS 1.0180 1.0460									
PH1 . 000 . 3456 . 2614 40.000 . 2033 . 1087									
ALPHA (3) = 3.994 BETA (3) =	4.245 MACH = 1.2448	o	= 599.34	α.	= 552,51	.53	RN/L	* 3.0	3.0213
SECTION (1) BODY FLAP LONER	DEPENDENT VARIABLE CP								
X/LB 1.0180 1.0460									
PH1 .000 .3499 .2645 40.000 .2059 .1048								•	

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TABULATED PRESSURE DATA - 0A148 (AMES 11-073-1) DATE 13 FEB 76

AMES 11-073(04148). -1404/B/C/R ORB BODY FLAP LWR

O 4.256 MACH = 1.2456 DEPENDENT VARIABLE CP BETA (3) =

= 3.0223

RN/L

599.56

(XE8663) 552.04

PAGE 6053

1.0180 1.0460 X/LB

SECTION (1) BODY FLAP LOWER

ALPHA (5) = 11.890

PH1 .000 40.000

.2750 .5211

ORIGINAL PAGE IS OF POOR QUALITY

(XE8G64) (05 AUG 75)	PARAMETRIC DATA		# 700 5u DMJI - 7 100E				A 700 FL COMP				and the part of the				ı			
BODY FLAP LWR		RUDDER BDFLAP R-ELVN	g 298,93				= 598.93				- 598.93				200 80			
AMES 11-073(0A148) -140A/5/C/R ORB BODY FLAP LWR		4P = 1076.6800 IN. XO 4P = .0000 IN. YO 4P = 375.0000 IN. ZO	(1) = -3.840 MACH = 1.0981 0				(2) = .196 MACH = 1.0981 Q	DEPENDENT VARIABLE CP			(3) = 4.273 MACH = 1.3981 Q	DEPENDENT VARIABLE CP			1) = -3.863 MACH = 1.0998 0			
	REFERENCE DATA	SPEF = 2690.0000 SO.FT. XMRP LREF = 474.8000 IN. YMRP BREF = 936.0680 IN. ZMRP SCALE = .0300	ALPHA (1) = -3.951 BETA	SECTION (1)BODY FLAP LOWER	X/LB 1.0180 1.0460	PH1 .CCC .2373 .1435 40 DGC .0563 .0095	ALPHA (1) = -3.948 BETA	SECTION (1) BODY FLAP LOWER	X/LB 1.0180 1.0460	PH1 .000 .0353 .1558 .40.000 .0770 .000	ALPHA (1) = -3.942 BETA (SECTION (1) BODY FLAP LUWER	X/LB 1.0180 1.0463	PHI .007 .2221374 .0.036 .07630019	A_PHA (2) = .059 BETA (SECTION (1)BODY FLAP LOWER	X/LB 1.0180 1.0450	PHi .000 .2680 .1638 40.000 .1616 .0636

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DATE 13 FEB 76 TABULATED PR	PRESSURE DATA - DAIVB (AMES 11-073-1)	11-073-1				į	a.	PAGE 6055	5
	AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP LWR	'R ORB BODY	FLAP LWR			(XEBCG#)			
ALPHA (2) = .062 BETA (2) =	.183 MACH = 1.0998	•	599.80	٥.	•	708.37	RN/L	m W	3.1909
SECTION (1'BODY FLAP LOWER	DEPENDENT VARIABLE CP								
X/LB 1.0180 1.0469									
PHI . 000 . 2979 . 1881 40.000 . 1411 . 0634				er Hr					
ALPHA (2) = .059 BETA (3) =	4.253 MACH * 1.0998	•	599.80	٥		708.37	RN/L	w w	3.1909
SECTION (1) BODY FLAP LOWER	DEPENDENT VARIABLE CP			٠		*			
X/LB 1.0180 1.0460									
PHI . 000 . . 1580						,			
ALPHA (3) = 4.021 BETA (1) =	-3.865 MACH = 1.0995	•	600.25	 •	•	709.31	RN/L	m m	3.1949
SECTION (1) BODY FLAP LOWER	DEPENDENT VARIABLE CP			r er					
X/LB 1.0180 1.0466									
PHI .CCO .345! .2097 .0.000 .045				**					
ALPHA (3) = 4.021 BETA (2) =	.178 MACH = 1.0995	°	600.25	 Q.		709.31		, W	3.1949
SECTION (1) BODY FLAP LOWER	DEPENDENT VARIABLE CP			•					
X/LB 1.0180 1.0460				***		_			
1H9 .000 .3575 .2178 9.000.54									
ALPHA (3) = 4.024 BETA (3) =	4.243 MACH = 1.0995	•	600.25	 G		705.31	RN/L	m •	3.1949
SECTION (1)30DY FLAP LOWER	DEPENDENT VARIABLE CP					**			
X/LB 1.0180 1.0460				,					
PHI .000 .3511 .2177 .000.00 .1789 .0551									

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CATE 13 FEB 76 TABULATE	ED PRESSURE DAT	TABULATED PRESSURE DATA - OAI48 (AMES 11-073-°)	1-073-	•				•	PAGE 6056	056
	AMES 11-073	AMES 11-073(04148) -1404/B/C/R ORB BODY FLAP LMR	R ORB BC	OY FLAP LH	œ		(XEBGB4)	•		
ALPHA (4) = 7.977 BETA (1)	± -3.859 M	MACH = 1.0995	o	= 600.25	Œ		709.31	RN/L	ii Ko	3.1954
SECTION (1)BODY FLAP LOWER	DEPENDE	DEPENDENT VARIABLE CP								
X/LB 1.0160 1.0460										
PHI .000 .4253 .2569 .000.00 .2709										
ALPHA (4) = 7.981 BETA (2)	H 181.	MACH ≈ 1.0995	a	= 600.25	۵	•	709.31	RN/L	r r	3.195#
SECTION (1) BODY FLAP LOWER	DEPENDE	DEPENDENT VARIABLE CP								
X/LB 1.0180 1.0460										
PH1 .000 .4335 .2584 40.000 .2636 .1122										
ALPHA (4) = 7.900 BETA (3)	= 4.237 M	MACH = 1.0995	o	* 600.25	Q.		709.31	RN/L	M)	3.1954
SECTION (1) BODY FLAP LOWER	DEPENDE	DEPENDENT VARIABLE CP								
X/LB 1.0180 1.0460										
PHI .COD. 9.000.04 5990. 7045. 000.04										
ALPHA (5) = 11.919 BETA (1)	± -3.844 M	MACH = 1.0980	o	- 599.84	۵.		710.72	RN/L	m M	3.1951
SECTION (1)BODY FLAP LOWER	DEPENDE	DEPENDENT VARIABLE CP								
X/LB 1.018G 1.0460										
1Hd .000.04 .000.04										
ALPHA (5) = 11.930 BETA (2) =	. 189 ×	MACH = 1.0980	0	≠ 599.8⁴	4	•	710.72	RN/L	m H	3.1951
SECTION (1)BODY FLAP LOWER	DEPENDEN	DEPENDENT VARIABLE CP								
X/LB 1.0180 1.0460										
PH1 .000 .5059 .2953 40.000 .3:94 .1342										

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DATE 13 FEB 76

TABULATEO PRESSURE DATA - DAI48 (AMES 11-073-1)

AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP LWR

RN/L = 3.1951

(XE8664) 27.017

PAGE 6057

599.84 4.249 MACH = 1.0980 BETA (3) = ALPHA (5) = 11.925

DEPENDENT VARIABLE CP SECTION (1) BODY FLAP LOWER

1.0180 1.0460 X/LB

PH1 .000 40.000

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TABULATED PRESSURE DATA - DAIHB (AMES :11-073-1) DATE 13 FEB 76

(05 AUG 72) PARAMETRIC DATA (XE8665) AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP LWR REFERENCE DATA

Industrial between the committee of the other particles by the best of the first of the first of the best of the first of

55.000 -4.000 .900 3.5768 3,5768 3.5759 SPOBRK = L-ELVN = MACH = ž ž Ž = 1057.6 5.000 16.300 -4.000 1057.6 1057.6 1057.3 . . . RUDDER -BRFLAP -R-ELVN -۵ 500.12 600.12 600.12 599.62 ø G σ -3.837 MACH = .90037 .195 MACH = .90037 - .90037 .93007 DEPENDENT VARIABLE CP DEPENDENT VARIABLE CP DEPENDENT VARIABLE CP DEPENDENT VARIABLE CP = 1076.6800 IN. XO = .0000 IN. YO = 375.0000 IN. ZO MACH MACH 4.274 -3.869 BETA (1) = (3) * (1) * XMRP YMRP ZMRP ALPHA (1) = -3.963 BETA BETA . CS2 BETA SECTION (1)BODY FLAP LOWER SECTION (1) BODY FLAP LOWER SECTION (1) BODY FLAP LCHER SECTION 1 1) BODY FLAP LOWER 2590.0000 SQ.FT. 474.8000 IN. 935.0090 IN. .024 1.0183 1.0450 .3030 .1115 .1338 .0190 1.0180 1.0460 .1703 .0053 1.0180 1.0450 ALPHA (1) = -3.955 ALPHA (1) = -3.957 . 1104 ALPHA (2) = . 000 40. 000 .000 40.000 40.000 SREF = LREF = BREF = SCALE = X/LB X/LB Ī ž X/LB

1.0180 1.0450

X/LB

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3.5705 3.5759 3.5705 3.5705 PAGE 6059 **1** ž Š ž Ž (XE8665) 1057.3 1057.3 1059.3 1059.3 1059.3 ۵. ۵. ۵ ۵. AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP LWR **z** 598.16 599.65 598.16 598.16 599.62 TABULATED PRESSURE DATA - CAI48 (AMES 11-073-;) O O a Ø O .90007 .90007 -3.873 MACH = .89817 4.246 MACH = .89817 DEPENDENT VARIABLE CP MACH MACH MACH 179 4.252 . 183 (3) = 33 (C) ر ص BETA BETA = 4.023 BETA BETA ALPHA (3) = 4.021 BETA SECTION (1)BODY FLAP LOWER SECTION (1)BODY FLAP LOWER SECTION (1) BODY FLAP LOWER SECTION (1) BODY FLAP LOWER SECTION (1'80DY FLAP LOWER .1040 . 1151 1.0180 1.0460 1.0190 1.0460 .2843 .0967 .1625 -.0048 1.0190 1.0460 1.0180 1.0460 1.0180 1.0460 ALPHA (2) * .050 ALPHA (3) # 4.021 . 05¢ .3369 .3380 .3014 DATE 13 FEB 76 ALPHA (2) = ALPHA (3) . 000 . 000 40. 000 FH1 .000 +0.000 .000 40.000 .000 40.000 x/La X/LB X/LB X/LB Ξd ij X/LB

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TABULATED PRESSURE DATA - OAI48 (AMES 11-073-1) AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP LWR	a	DEPENDENT VARIABLE CP	10 1.0463 11 .1311 12 .0553 7.894 BETA (2) * .183 MACH = .89873 0 = 598.61 P = 1058.8 RN/I, = 3.5706	17 .0358	7.892 BETA (3) = 4.244 MACH = .89873 Q = 598.61 P = 1058.8 RN/L = 3.5705 NYFLAP LOWER DEPENDENT VARIABLE CP 10 1.0450	9 .01355 5 .0191 1.907 BETA (1) = -3.859 MACH = .89780 0 = 598.05 P = 1060.0 RW/L = 3.5707 1YFLAP LOWER DEPENDENT VARIABLE CP	7 .1424 7 .0540 1.920 BETA (2) = .190 MACH = .89780 Q = 598.05 P = 1060.0 AM/L = 3.5707 18 FLAP LOMER DEPENDENT VARIABLE CP
		FLAP LC	0460 1311 0550	SECTION (1)BODY FLAP LOWER 7LB 1.0180 1.0+60 PHI .330 +0.000 .3814 .1330 +0.000 .2367 .0358) LO	PH1 .C00 .3854 .1325 40.000 .2205 .0141 ALPHA (5) = 11.907 BETA SECTION (1)80DY FLAP LOWER X/L9 1.0180 1.0460	PH1 .300 .4077 .1424 40.000 .2767 .0540 ALPHA (5) * 11.920 BETA SECTION (1)800Y FLAP LOWER XVLB 1.0180 1.0469

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DATE 13 FEB 75

TABULATED PRESSURE DATA - DAIYB (AMES 11-073-!)

AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP LWR

4.258 MACH = .89780 DEPENDENT VARIABLE CP BETA (3) = SECTION (1)BODY FLAP LOWER ALPHA (5) = 11.907

1.0180 1.0450 87/x

9HI .050 40.04

.1393 . 2262

(XEBGED)

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= 598.05

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= 1060. □

PN/L = 3.5707

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DATE 13 FEB 76 TABULATED PRESSURE DATA - OAIHB (AMES 11-073-1) AMES 11-073(04148) -140A/B/C/R ORB BODY FLAP LWR	REFERENCE DATA .	SREF = 2590.0000 SQ.FT. XMRP = 1076.6800 IN. XO LREF = 474.8000 IN. YMRP = .0000 IN. YO BREF = 935.0580 IN. ZMRP = 375.0000 IN. ZO SCALE = .0300	ALPHA (1) = -4.037 BETA (1) = -7.846 MACH = .59482 0 = 591.26 P	SECTION (1)BODY FLAP LOWER DEPENDENT VARIABLE CP	x/L9 1.0183 1.0460	PH1 000.09 2000 1813. 0005 40.000 101 - 1001.	ALPHA (1) = -3.899 BETA (2) = -3.843 MACH = .59482 Q = 591.26 P	SECTION (1)BODY FLAP LOWER DEPENDENT VARIABLE CP	X/LB 1.0180 1.0460	PH1 . CDD . 2278 . CD77	ALPHA (1) = -3.894 BETA (3) = .194 MACH = .59482 G = 591.26 P	SECTION (1) BOCY FLAP LOWER DEPENDENT VARIABLE CP	X/LB 1.0189 1.0453	PHI .000 .2475 .035 .000 .12050432	ALPHA (1) = -3.502 BETA (4) = 4.271 MACH = .59482 Q = 591.25 P	SECTION (1) BODY FLAP LOWER DEPENDENT VARIABLE CP	X/LB 1.0180 1.0460	FH1 .000 .2228 .0021 .000.04

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PAGE 6053	.996	+ RN/L = 4.8005				PN/L = 4.8075				FRV/L = 4.8075				# RN/L = 4.8075				FAV.L = 4.8075	•		
	(XE8G66)	= 2387.4				₽ 2386.4				= 2386.4				= 2386.4				= 2386.4			
	FLAP LMR	591.26 P				592.43 P				592.43 P				592.43 P				592.43 P			
5 11-073-1)	CAR ORB BODY	0				•				#								0			
PRESSURE DATA - DAIWB (AMES 11-073-1)	ANES 11-073(04148) -1404/8/C/R ORB BODY FLAP LAR	8.333 MACH = .59482	DEPENDENT VARIABLE CP			-7.886 MACH = .59550	DEPENDENT VARIABLE CP			-3.862 MACH = .59550	DEPENDENT VARIABLE CP			.175 MACH = .59550	DEPENDENT VARIABLE CP			4.250 MACH = .59550	DEPENDENT VARIABLE CP		
TABULATED F		A (5) =	~			A (1) #	~			A (2) =				'A (3) =	_			= (+) Y	_		
DATE 13 FEB 76		ALPHA (1) = -3.917 BETA	SECTION (1)500Y FLAP LOWER	X/LB 1.0180 1.0450	PHI .00021670093 40.000 .10420659	ALPHA (2) = .056 BETA	SECTION (1) BODY FLAP LOKER	X/LB 1.0150 1.0450	PHI .030 - 24950307 40.000 .12950339	ALPHA (2) = .075 9ETA	SECTION (1) BODY FLAP LOWER	X/LB 1.0180 1.0460	PHI . 000 . 2355 . 000. . 000.04	ALPHA (2) = .076 BETA	SECTION (1) BODY FLAP LOWER	X/LB 1.0180 1.0469	PHI . 000 . 2413 . 01111 . 000 04	ALPHA (2) = .073 BETA	SECTION (1) BOOY FLAP LOWER	X/L6 1.0180 1.0460	PH1 .062 .2380 .0986 .40.389 .0557

			•
DATE 13 FEB 76 TABULATED PRES	PRESSURE DATA - DAIWB (AMES 11-073-1)		PAGE 6054
AME	AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP LUR	(XEBGEB)	
ALPHA (2) = .069 BETA (5) = 8	8.308 MACH = .59550 0 = 592.43	Р * 2386.4	RN/L = 4.8075
SECTION (1)BODY FLAP LOWER	DEPENDENT VARIABLE CP		
X/LB 1.0180 1.0450			
PHI .000 .24630038 40.000 .11270556			
ALPHA (3) = 4.02; BETA (1) = -7	-7.899 MACH = .59494 0 = 591.36	Р = 2386.7	RN/L = 4.8049
SECTION (1)BODY FLAP LOWER	DEPENDENT YARIABLE CP		
X/LB 1.0180 1.0460			
FHI .000 .2715 .0104 .0.000 .15550194			
ALPHA (3) = 4.024 BETA (2) = -3	-3.864 MACH = .59494 0 = 591.36	P = 2386.7	RN/L = 4.8049
SECTION (1)BODY FLAP LOWER	DEPENDENT VARIABLE CP		
X/LB 1.0180 1.0460			
PHI .500 .252. 0177 .000.04			
ALPHA (3) = 4.022 BETA (3) =	.186 MACH = .59494 0 = 591.36	P = 2386.7	RN/L = 4.8049
SECTION (1)BODY FLAP LOWER	DEPENDENT VARIABLE CP		
X/LB :.0180 1.0460			
PSI . 2633 . 0156 .000 .2633 . 0156 .40.000 .15070403			
ALP4A (3) = 4.025 BETA (4) = 4	4.244 MACH = .59494 0 = 591.36	P = 2386.7	RN/L = 4.8049
SECTION (1) BODY FLAP LOWER	DEPENDENT VARIABLE CP		
X/LB 1.0180 i.0%50			
PH1 .000 .26+1 .0115 +0.000 .1359 ~.05!8			

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PAGE 6065		6+08·+ =				* 4.7971				= 4.7971				* 4.7971		•		= 4.7971			
Δ.		RN/L				FAV.				RN/L				FIN/L				RN/L			
	(XE8666)	2386.7				2387.2				2387.2				2387.2				2387.2			
						n				*											
		۵				Φ.				<u>α</u>				۵.				۵.			
	FLAP LWR	591.36				590.06				290.06				590.06				590.06			. "
3-1)	в вору	H				u				H				Ħ							
11-07	3/R OR	o				O				Ø				O				o			
PRESSURE DATA - DAINS (AMES 11-073-1	ANES 11-073(04148) -140A/B/C/R ORB BODY FLAP LMR	8.294 MACH = .59494	DEPENDENT VARIABLE CP			-7.888 MACH = .59424	DEPENDENT VARIABLE CP			-3.859 MACH = .59424	DEPENDENT VARIABLE CP			.178 MACH = .59424	DEPENDENT VARIABLE CP			4.237 MACH * .59424	DEPENDENT VARIABLE CP		
TABULATED I		5				=======================================				S) =				8				# 7			
FEB 75 TABU		3) = 4.031 BETA ((1'800Y FLAP LOWER	1.0160 1.0460	. 1337 - 0026 7740 - 7351) = 7.869 BETA (SECTION (1)800Y FLAP LOWER	1.0185 1.0463	. 1809 0199 . 1809 0198) = 7.986 BETA (SECTION (1)BCDY FLAP LOWER	1.0180 1.0450	.2890 .0277 .18790224) = 7.991 BETA (SECTION (1)BCDY FLAP LOWER	1.5180 1.0460	.2934 .0334 .17260248) = 7.992 BETA (SECTION (1)BODY FLAP LOWER	1.0180 :.0460	.2927 .0210 .16080308
DATE 13 F		ALPHA (3	SECTION (X/LB	FH1 .000 .000	ALPHA (4)	SEC 1 ON	X/LB	PH1 .000 40.600	ALPHA (4)	SECTION	X/LB	PHI . 000 40.000	ALPHA (4)	SECTION	X/LB	E € E • € ORIGI	ALPHA (4)		X/LB	14. 000:03 E 15

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DATE 13 FEB 76 TABULATED) PRESSURE DATA - 04148 (AMES 11-073-1)	4148 (AMES 1	1-073-1	_					PAGE 5055	
	AMES 11-073(04148) -1404/8/C/R ORB BODY FLAP LWR	9) -140A/B/C/	R ORB BO	30Y FL	AP LWR		(XE8666)	9		
ALPHA (4) = 7.989 BETA (5) =	8.293	МАСН /= .59424	σ	11	590.06	۵	= 2387.2	RN/L	= 4.7971	2
SECTION (1) BODY FLAP LOWER	DEPENDENT VARIABLE CP	RIABLE CP								
X/LB 1.0180 1.0460										
PHI .000 .2932 .0117 +0.000 .15430370										
ALPHA (5) = 12.002 BETA (1) =	-7.846 MACH	59422	ø	ii D	590.06	Q.	= 2387.2	RN/L	# 4.79 <i>1</i> 8	9
SECTION (1)BODY FLAP LOWER	DEPENDENT VARIABLE CP	MABLE CP								
X/LB i.0180 1.0460							·			
PHI 0350 .0315. 000. 040.000.000.04										
ALPHA (5) = 12.020 BETA (2) =	-3.839 МАСН	59422° =	ø	ii H	590.06	Q.	= 2387.2	RN/L	■ 4.7978	82
SECTION (1)BODY FLAP LOWER	DEPENDENT VARIABLE CP	TABLE CP								
X/LB 1.0180 1.0450										
PHI . 500 . 3170 . 054 . 600 . 6038										
ALPHA (5) = :1.983 BETA (3) =	. 186 MACH	59422 ≈	ø		590.06	۵.	* 2387.2	RN/L	= 4.7978	82
SECTION (1)BODY FLAP LOWER	DEPENDENT VARIABLE CP	TABLE CP					٠.			
X/LB 1.0180 1.0450										
PH1 .000 .3127 .0419 40.000 .18490237										
ALPHA (5) = 11.980 BETA (4) =	4.247 MACH	€ .59422	O	<u>بر</u> *	590.06	٥.	* 2387.2	RN/L	= 4.7978	8
SECTION (1)BODY FLAP LOWER	DEPENDENT VARIABLE CP	IABLE CP								
X/LB 1.0:80 1.0460										
PH1 .000 .3172 .0377 40.000 .17560:95										

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DATE 13 FEB 76

TABULATED PRESSURE DATA - DAI48 (AMES 11-073-1)

AMES 11-073(04148) -1404/8/C/R ORB BOCY FLAP LMR

(XEBG66)

RN/L

= 4.797B

2387.2

۵

= 590.06

o

8.307 MACH = .59422 DEPENDENT VARIABLE CP

ALPHA (5) = 11.973 BETA (5) =

SECTION (1) BODY FLAP LOWER

1.0180 1.0460

X/LB

.0323

.3159

PH! .000 .000

PAGE 5057

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1-073-1
AMES
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DATA
PRESSURE
TABULATED

AMES 11-073(CA148) -140A/8/C/R 0RB BODY FLAP LMR

PEFEGENCE DATA

PAGE SOFB (XE8067) (05 AUG PARAMETRIC DATA

55.000 -4.000 SPDBRK = L-ELVN = MACH = .000 22.500 -4.000 RUDDER = BOFLAP = R-ELVN = = 1076.6800 I.N. XO = .0000 I.N. YO = 375.0000 IN. ZO XMRP YMRP ZMRP

٥ = 600.66 0 .90057 DEPENDENT VARIABLE CP -3.849 MACH ALPHA (1) = -3.954 BETA (1) = SECTION (1) BODY FLAP LONER 6590.0000 50.FT. 474.9000 IN. 935.0680 IN. 1.0180 1.0460 SREF = LREF = BREF = SCALE = X/LB

= 3.6340

RN/L

= 1058.0

3.63+0

RNI = 1058.0 **600.65** a MACH = .90057 . 192 ا (ئ ا ALPHA (1) = -3.952 BETA .4:36 .2295 .1930 .:538 . 000 40. 000

CEPENDENT VARIABLE CP SECTION (1) PODY FLAP LOWER 1.0180 1.0450 Ħ a X/1.B

.4102 .2453 .2783 .1348 40.000 40.000

1282 1058.0 600.66 4.272 MACH # .90057 (3) = ALPHA (1) = -3.959 BETA SECTION (1)BOSY FLAP LOWER

3.6340

DEPENDENT VARIABLE CP 1.0190 1.0463

.3909 .3758 .000 40.000 S/Le

1056.9 601.04 0 .90130 DEPENDENT VARIABLE CP MACH -3.871 = (1) BETA SECTION (1) BODY FLAP LOWER 640 ALPHA (2)

3.6167

3

1.0180 1.0460 X/LB

PHI .000 40.600

.3733 .3024

DATE 13 FEB 76 TABULATED PR	PRESSURE DATA - OAIW8 (AMES 11-073-1	.073-1			<u>a</u>	PAGE 6069
	AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP LMR	ORB BODY FLAP LWR		(XE8657)		
ALPHA (2) = .052 BETA (2) =	.177 MACH = .90130	Q = 601.04	•	1056.9	RN/L	3.6167
SECTION : 11802Y FLAP LOWER	DEPENDEN: YARIABLE CP					
X/LB 1.0180 1.0460						
PH1 .000 .4094 .2276 .0000 .2840 .1273						
ALPHA (2) = .052 BETA (3) =	4.253 HACH = .90130	. 601.04	a .	1056.9	F8/1	3.6167
SECTION (1)BODY FLAP LOWER	DEPENDENT VARIABLE CP					
X/LB 1.0180 1.0460						
149 1360 - 4375 - 600 140.000 - 5175 - 600.00						
ALPHA (3) = 4.019 BETA (1) =	-3.877 MACH = .89987	0 = 599.87	u a.	1058.3	RN/L	3.6007
SECTION (1) BODY FLAP LOWER	DEPENDENT VARIABLE CP			,		
X/LB 1.0180 1.0460						
PH! CCC: CCC: 2398 CCCCCC 2346: CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC						
A: PHA (3) = 4.018 BETA (2) =	.181 MACH = .89987	.0 - 599.87	•	1058.3	RN/L	- 3.6007
SECTION (1) BODY FLAP LOWER	DEPENDENT VARIABLE CP					
X/LB 1.0160 1.0460						
PH; . G30 . 451; . 2389 40.005 . 3334 . 1292						
ALPHA (3) = 4.022 BETA (3) =	4.243 MACH = .89987	0 = 599.87	۵.	1058.3	PN/L	3.5007
SECTION : 1.1BODY FLAP LOWER	DEPENDENT VARIABLE CP					
X/LB 1.0180 1.0460						
PH1 . 000 . 4528 . 2424 . 000 . 3082 . 1047						

	(XE8657)	2 P * 1057.8 RN/L * 3.5837			P = 1057.8 RN/I = 1 5827				P = 1057.8 RN/! = 3 5837			,	P = 1058.3 RN/1 = 2 576.5				P = 1058.3 RN/L = 3.5762			
PRESSURE DATA - DAIHB (AMES 11-073-1)	1908 BODY F	- 2			.182 MACH = .90040 0 = 600.32				4.242 MACH = .900%0 0 = 600.32	DEPENDENT VARIABLE CP			-3.8E6 MACH = .89987 Q = 599.87	DEPENDENT VARIABLE CP			.:89 MACH = .89987 Q = 599.87	DEPENDENT VARIABLE CP		
DATE :3 FE9 TS TABULATED F	ALPHA (4) = 7.985 BETA (1) =	LOWER	X/LB 1.6180 1.0460	PHI .000 .5017 .2557 40.000 .1126 .1649	ALPHA (4) = 7.993 BETA (2) =	SECTION (1)BODY FLAP LOWER	X/LB 1.0180 1.0460	PHI .000 .5044 .2551 40.000 .3720 .1373	ALPHA (4) = 7.992 BETA (3) =	SECTION (1) BODY FLAP LOWER	x/La 1.018º 1.0450	PH1 .000 .5055 .2585 .40.000 .3380 .1172	ALPHA (5) = 11.953 BETA (1) =	SECTION (1) BODY FLAP LOWER	X/LB 1.0180 1.0460	FH1 . COC . 5490 . 2659 40.000 . 4254 . 1585	ALPH1 (5) = 11,963 BETA (2) =	SECTION (1)BODY FLAP LOWER	Y/LB 1.0180 1.0460	PH1 .000 .5470 .2705 .000.000 .3914 .1395

TABULATED PRESSURE DATA - OA148 (AMES 11-073-1) DATE 13 FEB 76 AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP LWR

= 599.87 ø 4.261 MACH = .89987 BETA (3) = ALPHA (5) = 11.953

DEPENDENT VARIABLE CP

SECTION (1) BODY FLAP LOWER

1.0180 1.0460 PH1 .000 40.000 X/LB

.1174 .5487 .3699

(XEBG57)

1058.3

RN/L = 3.5762

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TABULATED PRESSURE DATA - OAI48 (AMES 11-073-1)

F:0E 8:72 05 406 75

(XESGEB)

AMES 11-073(04148) -1404/8/C/R ORB BODY FLAP LWR

4.8347 55.000 -4.000 -500. ■ 4.8347 4.8347 4.8347 SPCBRK **
L-ELVN **
HACH ** N Z ž Z Z Ž PARAMETRIC DATA 2387.2 .000 22.500 -4.000 = 2387.2 **- 23**87.2 **= 23**87.2 R-ELVN = ۵ ۵. ٥ 593.04 593.04 593.04 593.04 G O 0 = ,59574 DEPENDENT VARIABLE CP .59574 ± .59574 DEPENDENT VARIABLE CP DEPENDENT VARIABLE CP DEPENDENT VARIABLE CP -7.845 MACH = -3.844 MACH 4.270 MACH 1076.6800 IN. XO .0000 IN. YO 375.0000 IN. ZO MACH . 193 ALPHA (1) = -3.934 BETA (1) = # ℃ ∵ = (£) H (3) XMRP YMRP ZMRP BETA BETA BETA REFERENCE DATA SECTION (1) BODY FLAP LOWER SECTION (1)BODY FLAP LOWER SECTION (1) BODY FLAP LOWER SECTION (1) BODY FLAP LOWER 2590.0500 SD.FT. 474.8000 IN. 936.0580 IN. .0777 1.0180 1.0460 1.0180 1.0450 1.0180 1.0450 .3686 .1004 .2371 .0292 1.0180 1.0460 ALPHA (1) = -3.855 ALPHA (11 = -3.918 ALPHA (1) = -3.903 .3220 .3545 .2489 .000 40.000 40°.000 -0.000 -0.000 PH1 .036 40.030 SCALE = 8.7.B A/LB X/LB Ĭ Ī 표

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CATE 13 FEB 75 TABULATED PRESSURE DATA - DATHB (AMES 11-073-1)	DAIHB (AMES 1	1-073-1				112	109 HO
AMES 11-073(CA148) -14CA/B/C/R ORB BODY FLAP LWR	48) -14CA/B/C/	R 088 BOT	NY FLAP LWR		(XEBGSB)	•	
ALPHA (2) = .058 BETA (5) = 8.307 MACH	= ,59555	o	= 592.68	۵	23 87.2	BNIL	■ 4.8372
SECTION (1.900Y FLAP LOWER DEPENDENT VARIABLE CP	ARIABLE CP						
X/LB 1.0190 1.0460							
PHI . 000. . 3760. 0850. . 00.043							
ALPHA (3) = 4.022 BETA (1) = -7.901 MACH	++96G· =	ø	■ 594.20	۵.	- 2385.1	FRV/L	Drift.
SECTION (1) BODY FLAP LOWER DEPENDENT VARIABLE CP	ARIABLE CP						
X/LB 1.0180 1.0460							
1Hd 000. 4704. 000. 40.000. 6985. 000.04							
ALPHA (3) = 4.025 GETA (2) = -3.862 MACH	44965. =	Ö	* 59+.20	۵.	- 2386.1	ZZE	GT-BG-T
SECTION (1) BODY FLAP LOWER DEPENDENT VARIABLE CP	ARIABLE CP						
X/LB 1.0180 1.0460							
1Hd 740: 3978: 000.0 90:09							
ALPHA (3) = 4,023 BETA (3) = 182 MACH	++96G· =	a	* 594.20	0.	* 2385.1	PWA	9778. 1
SECTION (1) BODY FLAP LONER DEPENDENT VARIABLE CP	ARIABLE CP						
X/LB 1.0130 1.0450							
1Hd 0150: 005. 0150: 0075. 008.04							
ALPHA (3) = 4.027 BETA (4) = 4.243 MACH	4496€. =	G	594.20	Q.	≈ 2386.1	1/ XP	Gπ+61. π ■
SECTION (1) BODY FLAP LOWER CP	RIABLE CP						
X/LB 1.0180 1.0460			٠				
PH! .000 .3936 .1025 .000 .2509 .0203							

DATE 13 FEB 78 TABULATED PRES	TABULATED PRESSURE DATA - OAIWB (AMES 11-073-1)	-073-1				α,	PACE BOTS	
AME	AMES 11-07310A148) -140A/S/C/R ORB BODY FLAP LWR	YCOB BAO	FLAP LWR		(XEBC\$B)			
ALPHA (3) = 4.033 BETA (5) = 8	8.290 MACH = .59544	H O	594.20	Q.	= 2385.1	T/NG	9778 T	ω
SECTION (1)BODY FLAP LOWER	DEPENDENT VARIABLE CP							
X/LB 1.0180 1.0450								
1Hd 6080 8404 000 7510 4842 000°04								
ALPHA (4) = 7.992 BETA (1) = -7	-7.890 MACH = .59642	ii O	594.33	۵	= 2386.8	ž	B+30	o
SECTION (1)BODY FLAP LOWER	DEPENDENT VARIABLE CP							
X/LB 1.0180 1.0460								
1H9 .000. 7760. 8758. 000.04								
ALPHA (4) = 7.933 BETA (2) = -3	-3.850 MACH = .59542	Q	594.33	α.	= 2396.8	Š	# 4.5+39	æ
SECTION : 1)BODY FLAP LOWER	DEPENDENT VARIABLE CP							
X/LB 1.0180 1.0460								
7211. 2554. 000.04 7510. 1815. 000.04								
ALPHA (4) = 7.931 BETA (3) =	.185 MACH = .59542	6	594.33	۵	* 2396.B	7/3	£+8.4 =	m
SECTION (1)BODY FLAP LOWER	DEPENDENT VARIABLE CP							
X/LB 1.0183 1.0450								
1Hd 1900. 141. 3914. 000. 1418. 7585. 000.04								
ALFHA (4) = 7.592 BETA (4) = 4	4.234 MACH = .59642		594.33	α .	≈ 2395.B	Š	B+33	m
SECTION (1) BODY FLAP LOWER	DEPENDENT VARIABLE CP							
X/LB 1.0180 1.0450								
1H9 000. 000.04 5575. 0332								

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DATE 13 FEB 75 TABULATED PRESSURE DATA - DAIMB (AMES 11-073-1)			m (1) (2)
AMES 11-073(0A148) -140A/8/C/R ORB 800Y FLAP LAR	23	CHERGERY	
ALPHA (4) # 7.930 6ETA (5) = 8.289 MACH = .59642 G = 594.33	33	(i) (ii) (ii) (iii) (iii)	GETATT * T.No.
SECTION (1) BODY FLAP LOWER DEPENDENT VARIABLE CP			
X/LB 1.0183 1.0480			
PH1 .000 .4285 .1001 .00.004			
ALPHA (3) = 11.959 BETA (1) = +7.852 MACH = .59656 Q = 594.57	o	# 2385.T	20H8"# # 7/N8
SECTION (1) BODY FLAP LOWER DEPENDENT VARIABLE CP			
X/LE 1.0180 1.0460			
1810. 1817. 1810. 1875. 0729. 1875.			
ALPHA (5) = 11.978 BETA (2) = -3.840 MACH = .59855 0 = 594.57	d 7:	* 2385.7	E0-18- 1/Na
SECTION (1) BODY FLAP LOWER DEFENDENT VARIABLE CP			
X/LB 1.0180 1.0460			
11 21			·
ALPH4 (5) = 11.981 BETA (3) = .186 MACH = .59656 Q = 594.57	a.	* 2385.7	ECH8" + 7.84
SECTION : 1:80DY FLAP LOWER			
X/LB 1.0130 1.0450			
ትትናር፣ 1 318 - 605.04 184			
ALPHA (5) = 11.977 BETA (4) = 4.246 MACH 4 .59655 Q = 554.57	ď.	₹ 2386.7	80-4 H 1/N8
SECTION (1) BODY FLAP LOWER DEPENDENT VARIABLE CP			
X/LB 1.0160 1.0460			
PHI .050 .4562 .1233 h3.050 .3018 .0438			

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. 1289 .4528 000.04 000.04

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DATE 13 FEB 76

TABULATED PRESSURE DATA - CA148 (AMES 11-073-1)

AMES 11-073(0A148) -140A/B/C/R ORB BODY FLAP LWR

. 59656 MACH 8.308

(2) =

BETA

11.969

ALPHA (C) -

SECTION (1)BODY FLAP LOWER

1.0180 1.0460

X/LB

DEPENDENT VARIABLE CP

Ø

594.57

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2386.7

= 4.8403

RN/L

(XEBG68)

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TABULATED PRESSURE DATA - 0A148 (AMES 11-073-1)

人名英格兰人姓氏克勒斯 医骨骨的

PACE 6078

(05 AUG 75) PARAMETRIC DATA (XEBG69) ORB BODY FLAP LWR AMES 11-073(0A148) -140A/B/C REFERENCE DATA

3.6263 3.6263 **3.5047** R N L PN/L 1 **=** 1058.3 **= 1058.3** = 1056.6 **=** 1058.3 .000 22.500 -10.000 RUDDER = BOFLAP = R-ELVN = ٥ 599.88 599.88 599.88 601.65 0 Ø ø - 89987 .90190 **-** .89987 DEPENDENT VARIABLE CP DEPENDENT VARIABLE CP DEPENDENT VARIABLE CP DEPENDENT VARIABLE CP -3.851 MACH 4.272 MACH = 1076.6800 IN. XO = .0000 IN. YO = 375.0000 IN. ZO MACH -3.868 MACH . 189 BETA (1) = ر ان ان ALPHA (1) = -3.981 BETA (3) = BETA (1) = XMRP YMRP ZMRP BETA SECTION (1) BODY FLAP LOWER SECTION (1) BODY FLAP LOWER SECTION (1)BODY FLAP LOWER SECTION (1)BODY FLAP LOWER 2690.0000 SO.FT. 474.8000 IN. 936.6680 IN. 1.0180 1.0460 1.0183 1.0460 1.0180 1.0450 ALPHA (1) = -3.989 ALPHA (1) = -3.997 . 1346 . 1346 . 2931 ALPHA (2) * .000 40.000 PH: .000 40.000 PH1 .000 40.000 X/LB X/LB X/LB

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.2228

. 2531

PH1 .000 40.000

1.3180 1.0460

DATE 13 FEB 76 TABULATED PRESSU	TABULATED PRESSURE DATA - OA148 (AMES 11-073-1)	-073-1)			Δ.	PAGE 6079
AMES	AMES 11-073(0A148) -140A/B/C	ORB BODY FLAP LWR		(XE8069)	•	
ALPHA (2) = .010 BETA (2) = .1	.177 MACH = .90190	0 - 601.65	۵	- 1056.6	RN/L	3.5047
SECTION (1) BODY FLAP LOWER D	DEPENDENT VARIABLE CP					
X/LB 1.0180 1.0460						
PH1 .000 .3882 .2294 40.000 .2566 .1361						
ALPHA (2) = .007 BETA (3) = 4.2	4.253 MACH = .90190	0 * 601.65	۵	- 1056.6	RN/L	= 3.5047
SECTION (1) BODY FLAP LOWER	DEPENDENT VARIABLE CP					
X/LB 1.0180 1.0450						
PH1 .000 .3416 .2219 .000.004						
ALPHA (3) = 4.005 BETA (1) = -3.8	-3.869 MACH * .90083	0 = 600.78	۵.	= 1057.6	RN/L	3.5915
SECTION (1) BCDY FLAP LOWER	DEPENDENT VARIABLE CP					
X/LB 1.0180 1.0460						
PH1 .GGC .4301 .2422 40.GGC .3535 .1705						
ALPHA (3) = 4.002 ELTA (2) = .1	.179 MACH * .90383	Q = 500.78	۵	= 1057.6	RN/L	3.5915
SECTION (1)BODY FLAP LOWER	DEPENDENT VARIABLE CP					
X/LB 1.0180 1.0460						
PH1 .000 .4380 .2411 40.000 .3151 .1378						
ALPHA (3) = 4.006 BETA (3) = 4.2	4.240 MACH = .90083	0 = 600.78	۵	= 1057.6	RN/L	* 3.5915
SECTION (1)BODY FLAP LOWER	DEPENDENT VARIABLE CP					
X/LB 1.0180 1.0460						
PH1 . 2445 . 000			;			

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DATE 13 FEB 76 TABULATED PRESSURE I	PRESSURE DATA - 0A148 (AMES 11-073-1)	-073-1					PAGE ECBO	080
AMES 11-(AMES 11-073(0A148) -140A/B/C	ORB BODY FLAP LWR	FLAP LWR		e3x1	(XE8669)		
ALPHA (4) = 7.976 BETA (1) = -3.869	MACH ≈ .89993		600.24	۵.	- _1058.8	B RN/L	#	3.5857
SECTION (1) BODY FLAP LOWER DEPEN	DEPENDENT VARIABLE CP						j	,
X/LB 1.0160 1.0460								
PH1 .000 .4991 .2594 .1704 .3983 .1704								
ALPHA (4) = 7.978 BETA (2) = .182	MACH ≈ .89993		600.24	۵.	- 1058.8	B RN/L		3.5857
SECTION (1)BODY_FLAP LOWER DEPEN	DEPENDENT VARIABLE CP							
X/L9 1.6180 1.0460								
PH:								
ALPHA (4) = 7.979 BETA (3) = 4.241	MACH = .89993	0	600.24	Q	- 1058.8	B RN/L		3.5857
SECTION (1)BODY FLAP LOWER DEPEN	DEPENDENT VARIABLE CP							
X/LB 1.0190 1.0460								
PH1 .000 .5034 .2584 .000.00 .3273 .1192								
ALPHA (5) = 11.950 BETA (1) = -3.853	MACH = .90010	0	600.36	۵	- 1058.5	5 RN/L		3.5793
SECTION (1) BODY FLAP LOWER DEPEN	DEPENDENT VARIA LE CP							
X/LB 1.0180 1.0450								
PH1 .000 .5439 .2684 .000 .4259 .1689								
ALPHA (5) = 11.955 BETA (2) = .189	МАСН ≈ .90010	0	600.36	۵	= 1058.5	5 RN/L		3.5793
SECTION (1)BODY FLAP LOWER DEPEN	DEPENDENT VARIABLE CP							
X/LB 1.0180 1.0460								
941 . 5372 . 5722 . 000 . 000 . 3822 . 1475								

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TABULATED PRESSURE DATA - DAIWB (AMES 11-073-1)

ORB BODY FLAP LWR AMES 11-073(0A148) -140A/B/C

= 600.36 4.260 MACH = .90010 ALPHA (5) = 11.948 BETA (3) =

DEPENDENT VARIABLE CP

SECTION (1'BODY FLAP LOWER

1.0180 1.0460 PH1 .000 40.000 X/LB

. 1225 . 1225 .5404 .3531

RN/L = 3.5793

(XE8669) 1058.5

PAGE 6081

DATE 13 FES 76 TABULA	ATEO PF	RESSURE D	TABULATED PRESSURE DATA - OAI45 (AMES 11-073-1)	1-673-1	_				
		VMES 11-0.	AMES 11-073(0A148) -140A/B/C	ORB 80	<u>7</u>	ORB BODY FLAP LWR			(XE8670)
ALPHA (1) = -3.949 BETA (5	(5)=	8.334	MACH = .59666	a	Ħ	594.81	۵		2387.0
SECTION : LIBDOY FLAP LOWER		DEPEN	DEPENDENT VARIABLE CP						
X/LB 1.0180 1.0460									
1H9 0573. 8915. 000. 000.04									
ALPHA (2) = .049 BETA (= =	-7.888	MACH = .59628	o	R	593.97	۵		2386.4
SECTION (1)BODY FLAP LOWER		DEPEN	DEPENDENT VARIABLE CP						
Y/LB 1.0:80 1.0460									
PH1 . 000 . 3746 . 0901 40.000 . 7475 6664									
ALPHA (2) = .056 BETA (2	5	-3.86ч	MACH = .59628	ပ		593.97	۵	11	2386.4
SECTION (1) BODY FLAP LOWER		DEPEN	DEPENDENT VARIABLE CP						
X/LB 1.0190 1.0460									
PH1 .000 .3530 .0915 .00.000 .2956 .0+07									
ALPHA (2) = .058 BETA (3	(3) =	.180 MACH	MACH ≈ .59628	ø	11	593.97	۵.	11	2386.4
SECTION (1:30DY FLAP LOWER		DEPEN	DEPENDENT VARIABLE CP						
X/LB 1.0180 1.0460									
PH1 .030 .3635 .0916 +0.009 .2511 .0231									
ALPHA (2)055 BETA (4)	s T	4.251	MACH → .59628	0		593.97	۵		2386.4
SECTION (1) BODY FLAP LOWER		DEPEN	DEPENDENT VARIABLE CP						

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RN/L

* 4.8452

.0326 1110.

. 2326 . 2326

1.0180 1.0460

X/LB

- 4.8517

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* 4.8452

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DATE 13 FEB 76 TABULATED P	PRESSURE DATA - DAI48 (AMES 11-073-1)	1-073-1		,	ã.	PAGE 6085
	AMES 11-073(04148) -140A/B/C	ORB BODY FLAP LWR		(XEBG70)		
ALPHA (3) = 4.009 BETA (5) =	8.292 MACH = .59578	0 = 593.03	# &	2386.8	RN/L	= 4.8 ⁴⁵ 6
SECTION (1)BODY FLAP LOWER	DEPENDENT VARIABLE CP					
X/LB 1.0180 1.0460			•			
PHI .000 .3987 .0913 .0.000 .5755. 000.04						
ALPHA (4) = 7.945 BETA (1) =	-7.890 MACH = .59530	0 = 593.97	•	2386.4	RN/L	* 4.8482
SECTION (1) BODY FLAP LOWER	DEPENDENT VARIABLE CP					
X/LB 1.0180 1.0460						
9250: 1524: 000:04 9250: 1524: 000:04						
ALPHA (4) = 7.956 BETA (2)	-3.860 MACH = .59630	0 = 593.97	•	2386.4	RN/L	* 4.8482
SECTION (1) BODY FLAP LOWER	DEPENDENT VARIABLE CP					
x/L8 1.0180 1.0460						
PHI COO: 139.00.04						
ALPHA (4) = 7.955 BETA (3) =	.181 MACH = .59630	0 = 593.97		2386.4	RN/L	* 4.8482
SECTION (1) BODY FLAP LOWER	DEPENDENT VARIABLE CP					
X/LB 1.3180 1.0450						
791. 193 . 109						
ALPHA (4) = 7,955 BETA (4) =	4.234 MACH = .59630	0 - 593.97	•	2386.4	1/46	* 4.84B2
SECTION (1) BODY FLAP LOWER	DEPENDENT VARIABLE CP					
X/LB 1.0180 1.0460						
PHI .300 .4195 .1058 .40.000 .2742 .0296						

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DATE 12 FEB 76 TABULATED	TABULATED PRESSURE DATA - OA148 (AMES 11-073-1)	1-073-1)			n,	PAGE 6036	w
	AMES 11-073(0A148) -140A/B/C	CRB BODY FLAP LWR		(XE8670)			
ALPHA (4) = 7.954 BETA (5) =	8.280 мАСН ≈ .59630	0 = 593.97	0.	₽ 2386.4	SN/L	<u>छ</u> ज	28 %8 1" h
SECTION (1) BODY FLAP LOWER	DEPENDENT VARIABLE CP						
%/La 1.0180 1.0460							
) 1997 - 1954 - 1997 1900 - 1960 - 1960							
ALPHA (5) = 11.925 BETA (1) =	-7.848 MACH = .59584	0 = 593.15	a.	- 2385.7	RN/L	中田.中	南
SECTION (1) BODY FLAP LOWER	DEPENDENT VARIABLE CP						
X/LB 1.0180 1.0460							
0421. 0384. 000. 0421. 0384. 000.04							
ALPHA (5) = 11.942 BETA (2) =	-3.851 MACH = .59584	0 = 593.15	Q.	- 2386.7	RNAL	+E+8+3+	五百五
SECTION (1)BODY FLAP LOWER	DEPENDENT VARIABLE CP						
X/L3 1.0180 1.0460							
149 120. 1284 000. 1315. 000.04							
ALPHA (5) = 11.947 BETA (3) =	.182 MACH = .59584	G * 593.15	O.	= 2385.7	PNAL	######################################	ţ,
SECTION (11800Y FLAP LOWER	DEPENDENT VARIABLE CP						
X/LB 1.0180 1.0460							
PH1 . 032 . 1468 . 1246 ዓብ. 00. 3119 . 0 463							
ALP4A (5) = 11.942 BETA (4) =	4.245 MACH = .59584	0 * 593.15	۵.	= 2386.7	RVIL	40.04.4	+3 +
SECTION (1)BODY FLAP LOWER	DEPENDENT VARIABLE CP						
X/LB 1.0180 1.0450							
PHI .000 .45C2 .1284 .40.000.04							

DATE 13 FEB 76 TAB

TABULATED PRESSURE DATA - OAI48 (AMES 11-073-1)

The state of the s

AMES 11-073(0A148) -140A/B/C ORB BODY FLAP LWR

#5#8. II =

H/NE

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593.15

(XESG70) 2386.7

PAGE BOBT

ALPHA (5) * 11.935 BETA (5) = 8.309 MACH = .59584 Q

DEPENDENT VARIABLE CP

X/LB 1.0180 1.0460 PHI

SECTION (1) BODY FLAP LOWER

PHI . 000 . 4509 .1152 . 000. 4509 . 1552

ORIGINAL PAGE IS OF POOR QUALITY 1 1/2 ::

TABULATED PRESSURE DATA - OATHB (AMES 11-073-1)

9908 818B

was a second the proposition on the material bases of the proposition
ORB BODY FLAP LWR AMES 11-073(0A148) -140A/B/C

(XESG71) (35 ALS 75 SPOSEX L-ELVN HOH PARAMETRIC DATA -5.000 16.300 -10.000 RUDDER = BDFLAP = R-ELVN = = 1076.6800 IN. XO = .0000 IN. YO = 375.0000 IN. ZO XM2X 4877 4877 4877 487 REFERENCE DATA 8640,0000 SQ.FT. 474,9000 IN. 926,4690 IN.

* 2.9536

...! 4

■ 439.47

Q.

= 600.47

G = 1.3971 DEPENDENT VARIABLE CP -3.857 MACH = :: BETA SECTION (1) BODY FLAP LOWER ALPHA (1, = -3.946

SCALE =

1.0180 1.0460 .1728 .1479 .0217 -.009+ .000 .000 ď. X/LB

2.9036 Lat. Object Ω. 600.47 0 = 1.3971 .193 MACH (C) ALPHA (1) = -3.940 BETA

GEPENDENT VARIABLE CP SECTION (1) BODY FLAP LOWER

. 1319 1.0180 1.0460 . 1576 .089 40.053 X/LB

HW/ 138.41 ۵. 600.47 a MACH 4.272 3 ALPHA (1) = -3.945 BETA

P. 51.98

DEPENDENT VARIABLE CP SECTION (1) BODY FLAP LOWER

1.0180 1.0460 X/LB ī

600.47 O - 1.3971 -3.873 MACH () ALPHA (2) = .016 BETA .1582 .1349 .0419 .0316 40.000

2

DEPENDENT VARIABLE CP SECTION (1) BODY FLAP LOWER

1.0180 1.0460 X/EB

PHI .000 40.000

,一个人,我们也不是一个人,我们也不是一个人,我们就是一个人,我们就是一个人,我们也不是一个人,我们也不是一个人,也不是一个人,也不是一个人,也不是一个人,也可以 第二十二章 "我们是一个人,我们也不是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,也不

DATE 13 FEB 76 TABULATED PRESSURE DATA - JA148 (AMES 11-073-1)	AMES 11	-073-1	-				į.	94SE BC39
AMES 11-073(0A148) -140A/B/C	+0A/B/C	ORB PA	ORB PODY FLAP LWR	~		(XESG71)		
ALPHA (2) = .022 BETA (2) = .150 MACH = 1.3971	.3971	G	= 600.47	a	#	(n : 08#	T/No	8.6138
SECTION (1) BODY FLAP LOWER DEPENDENT VARIABLE CP	a O							
X/LS 1.0180 1.0460								
PHI .000 .2267 .1900 .000.04								
ALPHA (2) = .018 BETA (3) = 4.248 MACH = 1	1.3971	ø	- 600.47	C	#	E# 68#	FN/1	■ 2.9388
SECTION (1) BODY FLAP LOWER DEPENDENT VARIABLE CP	GP :							
X/LB 1.0180 1.0450								
1Hd 5855. 500. 9570. 5831. 600.04								
ALPHA (3) = 3.95; BETA (1) = -3.877 MACH = 1.3951	3951	ø	= 600.55	C	H	4#C, 18	T.S.	₽.9092 8
SECTION (1) BODY FLAP LOWER DEPENDENT VARIABLE CP	a 5							
X/LB 1.0153 1.0463								
8:21. 8:25. 000.04 8:21. 8:25. 000.04								
ALPHA (3) = 3.952 BETA (2) = .179 MACH = 1	1.3951	ø	= 600.55	Ω.	11	440.18	ž	≥ 2.5032
SECTION (1)BODY FLAP LOWER DEPENDENT VARIABLE OF	g :							
X/LB 1.0197 1.0460								
PHI .000 .3123 .2673 .000.04								
ALPHA (3) = 3.955 BETA (3) = 4.242 MACH = 1.3961	3961	ø	⇒ 600.56	a.	JP H	00 TO 10 TO 17 TO	178	3508.3 8
SECTION (1) BODY FLAP LOWER CP	dЭ :							
X/LB 1.0183 1.0950								
1Hd .000. 1891. 1893. 300.04								

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DEBS711 -39.41

X/LB

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62 -ALPHA (5) = 11.969 BETA

P. (0)

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= :600.16

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.177 MACH = 1.3964

DEPENDENT VARIABLE CP

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438.47

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1.0180 1.0450 81/X

SECTION : 11800Y FLAP LONER

.4125 .2894 .5135 .3623 ĭ

DATE 13 FEB 76	ر ة	1	TABULATED		ESSURE [DATA -	0A;48	PRESSURE DATA - 04148 (AMES 11-073-1)	-073-1	_					ď	PAGE 6091	160
				⋖	MES 11-(17310A	. (8+1	AMES 11-073(0A148) -140A/B/C		0y ₽	ORB BODY FLAP LWR			(XEB671)			
ALPHA (5) =	11.957	7 BETA	3	ŧi	4.251	MACH		ч.251 мАСН ≈ 1.396ч	a	"	600.16	۵	ن خ ا	439.71	RN/L	~	2.9137
SECTION (1) BODY FLAP LOWER	ישספג צרי	AP LOWER			DEPE	DEPENDENT VARIABLE CF	VARIA	SLE CF									
X/LB 1	1.0150 1.	1.0460															
PH1 .000 40 000	.5059	.4068						•									
ALPHA (6) =	15.903	3 BETA	<u>.</u>	и	-3.840 MACH = 1.3960	MACH	11	1.3960	o	н	600.45	۵	3 -	440.18	RN/L	eu H	2.9185
SECTION (1) BODY FLAP LOWER	1800Y FL	AP LOWER			13d30	DENT .	VARIAE	DEPENDENT VARIABLE CP									
X/LB 1	1.0810.1	1.0%00						•			`						
PHI .000 40.000	.5858 4456	. 4582 . 3156						, 44 4									
ALPHA (6) =	15.917	7 BETA	(S)	tt	.180	MACH	H	.180 MACH = 1.3960	ø	u.	600.45	۵	3 1	= 440.18	RN/L	™	2.9185
SECTION (1150DY FLAP LOWER	USODY FLU	tP LOWER			DEPE	DENT	VAR17E	DEPENDENT VARI/BLE CP :									
X/LB 1	1.0180 1.	1.0460															
PHI .000 40.000	.5915 .4456	.3197						• • •									
ALPHA (6) =	15.910	D BETA	3	H	4.280	MACH	H	4.280 MACH = 1.3960	0	#	54.009	۵	3	e40.18	FN/1.	€ •	2.9185
SECTION (1) BODY FLAP LOWER	BODY FLA	TONER			13d30	DENT 1	VAR I AE	DEPENDENT VARIABLE CP									
X/LB 1	1.6130 1.	1.0450						• • • •									
PHI .000 .000	.5893	.3319															

311.

(XE8672) (05 AUG 75)

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AMES 11-073(0A148) -140A/B/C ORB BODY FLAP LWR TABULATED PRESSURE DATA - OA148 (AMES 11-073-1)

PARAMETRIC DATA	RUDDER = -5.000 SPDBRK = 55.000 BDFLAP = 16.300 L-ELVN = -10.000 R-ELVN * -10.000 MACH = 1.250	# 599.40 P = 550.63 RN/L = 3.0058				= 599.40 .P = 550.63 RN/L = 3.0068				= 599.40 P = 550.63 RN/L = 3.0058				= 599.89 P = 551.11 RN/L = 3.0108			
		O				σ				ø				o			
REFERENCE DATA	SREF = 2690.0000 \$0.FT. XMRP = 1076.6800 IN. XO LREF = 474.8000 IN. YMRP = .0000 IN. YO BREF = 936.0580 IN. ZMRP = 375.0000 IN. ZO SCALE = .0300	ALFHA (1) = -3.944 BETA (1) = -3.854 MACH = 1.2471	SECTION (1) BODY FLAP LOWER DEPENDENT VARIABLE CP	X/LB 1.0180 1.0460	PH1 .000 .1795171 40.00000100325	ALPHA (1) = -3.937 BETA (2) = .190 MACH = 1.2471	SECTION (1) BODY FLAP LOKER DEPENDENT VARIABLE CP	X/LB 1.0180 1.0460	PHI .000 .1631 .1149 40.000 .02830089	ALPHA (1) = -3.943 BETA (3) = 4.266 MACH = 1.2471	SECTION (1) BODY FLAP LOWER DEPENDENT VARIABLE CP	X/LB 1.0180 1.0466	PHi .000 .1727 .1149 .000 .0251 .0005	ALPHA (2) = .045 BETA (1) = -3.865 MACH = 1.2470	SECTION (1) BODY FLAP LOWER DEPENDENT VARIABLE CP	X/LB 1.0180 1.0450	PH1 .000 .2326 .1723 40.000 .1173 .0504

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TABULATED PRESSURE DATA - 0A148 (AMES 11-073-1) AMES 11-073(0A148) -140A/B/C ORB BODY FLAP LMR (XE8G72) 'A (2) = .176 MACH = 1.2470	A (3) = 4.247 MACH = 1.2470	(2) = .181 MACH = 1.2481	TA (3) = 4.240 MACH = 1.2491
EB 76 (1) 8007 FL (1) 8007 FL	40.000 .0904 .0322 ALPHA (2) = .045 BETA SECTION (1)BODY FLAP LOWER X/LB	PHI	FHI .000 .3325 .2405 .000 .1840 .0889 ALPHA (3) = 3.984 BETA SECTION (1)BODY FLAP LOWER X/LB 1.0180 1.0463 FHI

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                   ORB BODY FLAP LWR
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TABULATED PRESSURE DATA + 0A148 ( AMES 11-073-1 )
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                 AMES 11-073104148) -140A/B/C
                                   -3.872 MACH = 1.2470
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                                                      DEPENDENT VARIABLE CP
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                                 ALPHA ( 4) = 7.933 BETA ( 1) =
                                                                                                                            ( S) =
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3) =
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                                                                                                                         ALPHA ( 4) = 7.940 BETA
                                                                                                                                                                                                                                                                                                      ALPHA ( 5) = 12.023 BETA
                                                                                                                                                                                                                  BETA
                                                                                                                                                                                                                                                                                                                                                                                              BETA
                                                  SECTION ( 1) BODY FLAP LOWER
                                                                                                                                         SECTION ( 1) BODY FLAP LOWER
                                                                                                                                                                                                                                SECTION ( 1) BODY FLAP LOWER
                                                                                                                                                                                                                                                                                                                        SECTION ( 1) BODY FLAP LOWER
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                                                                      1.0180 1.0460
                                                                                                .4201 .3033
.2575 .1362
                                                                                                                                                            1.0180 1.0450
                                                                                                                                                                                     .4197 .2966
.2574 .1386
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DATE 13 FEB 75 TABULATED PRESSURE DATA - DAIH8 (AMES 11-073-1)

AMES 11-073(0A148) -140A/B/C ORB BODY FLAP LMR

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4.249 MACH = 1.2460 Q

ALPHA (5) = 12.032 BETA (3)

SECTION 1 11800Y FLAP LOWER

3.0130

RN/L

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(XE8672) 551.81

PAGE 6095

DEPENDENT VARIABLE CP

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AMES 11-073-1	
-	
TABULATED PRESSURE DATA - 0A148	
RE DATA	
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TABULATE	
to to	
DATE 13 FEB 76	
CATE	

3.1830 3.1803 ENT. ž (XE8673) 708.37 ORB BODY FLAP LMR 599.9 ø AMES 11-073(0A148) -140A/B/C = 1.1000 DEPENDENT VARIABLE CP DEPENDENT VARIABLE CP .177 MACH MACH 4.245 (3) = a S BETA BETA SECTION (1'BODY FLAP LOWER SECTION (1) BODY FLAP LOWER 1.0180 1.0460 1.3:80 1.0460 .2450 .1437 .0346 -.0150 .0+6 . 052 . 1037 ALPHA (2) ALPHA (2) -050 -050 -050 100 CG3 X/LS I X/LB

ž 1 708.60 708.60 599.99 599.99 a ø .182 : MACH = 1.0998 DEPENDENT VARIABLE CP DEPENDENT VARIABLE CP MACH -3.872 = = = (S) ± 4.014 BETA BETA SECTION (1) BODY FLAP LOWER SECTION (1)BODY FLAP LOWER 1.0180 1.0460 1.0:80 1.0450 = 4.012 .3193 . 1510 ALFHA (3) ALPHA (3) . 333 *0.000 X/LB X/:B

SECTION (1) BODY FLAP LOWER 1.0180 1.0460 X/LB

3.1803

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708.60

599.99

O

= 1.0998

4.238 MACH

33 *

= 4.005 BETA

ALPHA (3)

DEPENDENT VARIABLE CP

.3238

PAGE 5097

		AMES 11-	07310	A148)	AMES 11-073(0A148) -140A/B/C		800₹	ORB BODY FLAP LWR			(XEBG73)	73)		
ALPHA (4) = 7.975 BETA	(1)	-3.868	MACH		= 1.1000	ø	11	- 599.94	۵.	•	708.35	RN/L	H	3.1794
SECTION (1)BODY FLAP LOWER		DEPE	NDENT	VARIA	DEPENDENT VARIABLE CP									
X/LB 1.0180 1.0460														
PH1 .000. .000.04 .000.04														
ALPHA (4) = 7.984 BETA	(2) =	17.	MACH		a 1.1000	ø		599.94	α .		707.35	RN/L		3.1794
SECTION (1)BODY FLAP LOWER		3430	NDENT	VARIA	DEPENDENT VARIABLE CP									
X/LB 1.0180 1.0460														
P41 .000 .4325 .2282 .40.000 .2230 .0699														
ALPHA (4) = 7.984 BETA	: (£)	4.233	MACH		= 1.1000	ø	*	599.94	٥.		708.35	RN/L		3.1794
SECTION (1) BODY FLAP LCMER		3430	NDENT	VARIA	DEPENDENT VARIABLE CP									
X/LE 1.0180 1.0460														
PHI .COO .4033 .2306 .COO.00.535 .0535														
ALPHA (5) = 12.057 BETA	1 1	-3.848	MACH		= 1.0997	a		599.84	۵.	*	708.61	RNI		3.1785
SECTION (1) BODY FLAP LOWER		3430	NDENT	VARIA	DEPENDENT VARIABLE CP	•								
X/LB 1.0180 1.0460														
PHI .000. .000.04 .000.04														
ALPHA (5) = 12.077 BETA	(2) =	. 180	MACH		- 1.0997	0	H	599.84	٥.	×	708.61	RN/L	*	3.1785
SECTION (1) BCDY FLAP LOWER		3430	NDENT	VARIA	DEPENDENT VARIABLE CP									
X/LB :.0180 1.0460														
PH1					**									

DATE 13 FEB 76

TABULATED PRESSURE DATA - DAIHB (AMES 11-073-1)

ORB BODY FLAP LWR AMES 11-073(0A148) -: 40A/B/C

= 599.84 O 4.245 MACH = 1.0997 BETA (3) .

DEPENDENT VARIABLE CP SECTION (1) BODY FLAF LOWER ALPHA (5) = 12.076

1.0180 1.0*65 X/LB

PHI .000 .000

.4781

RN/L 708.61

* 3.1785

(XE8G73)

PAGE 6099

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CATE 13 FEB 75

(XE8674) (65 AUG 75)	PARAMETRIC DATA	-5.000 SPDBRK = 55.000 16.300 L-ELVN = -10.000 -10.000 MACH = .900	= 1057.3 RN/L = 3.5738			= 1057.3 RW/L = 3.5728	1			1057.3 FN/I = 3 F728	•			1056.4 RN/1 = 3 5728)		
P LWR		RUDDER = BDFLA° = R-ELVN =	600.60 P			600.60 P =				. 60 P				.e7 P			
ORB BODY FLAP LWR			0 = 600			a = 600				09.000				0 = 600.67			
AMES 11-073(0A148) -140A/B/C		= 1075.6800 IN. XO = .0000 IN. YO = 375.0000 IN. ZO	() = -3.854 MACH = .90080	DEPENDENT VARIABLE CP		2) = .189 MACH = .90080	DEPENDENT VARIABLE CP			3) = 4.266 MACH = .90080	DEPENDENT VARIABLE CP			1) = -3.868 MACH = .90127	DEPENDENT VARIABLE CP		,
	REFERENCE DATA	SREF = 2690.0000 SO.FT. XMRP LREF = 474.9000 IN. YMRP BREF = 936.0680 IN. ZMRP SCALE = .0300	ALPHA (1) = -3.999 BETA (SECTION (1)BODY FLAP LOWER X/LB 1.0180 1.0460	PH1 .000 .2743 .1095 .020. 4130. 000.04	ALPHA (!) = -3.915 BETA (SECTION (1) SCDY FLAP LOWER	X/LB 1.0180 1.0460	PHI .000 .2763 .1166 .1302 .0236	ALPHA (1) = -3.961 BETA (SECTION 1 13903Y FLAP LOWER	X/LB 1.0180 1.0460	PHI 4101. 2659. 000. 40.600. 4141. 009.04	ALPHA (2) = .055 BETA ()	SECTION 1 13BODY FLAP LOWER	X/LB 1.0180 1.0+50	PH1 .000 .2581 .1043 40.000 .1299 .0369

DATE 13 FEB 76 TABULATED PI	PRESSURE DATA - OAI48 (AMES 11-073-1)	-073-1)			; -	PAGE 5101
	AMES 11-073(0A148) -140A/B/C	ORB BODY FLAP LWR		(XE8674)		
ALPHA (2) = .084 BETA (2) =	.180 MACH = .90127	0 = 600.67	۵.	# 1055.4	RN/L	3.5728
SECTION : 1) BODY FLAP LOWER	DEPENDENT VARIABLE CP					
X/L9 1.0180 1.0450						
PHI .000 .2739 .1105 .000.04						
ALPHA (2) = .055 BETA (3) =	4.248 MACH = .90127	G = 600.67	٥.	₽ 1056.4	RN/L	3.5726
SECTION (1) BODY FLAP LOWER	DEPENDENT VARIABLE CP					
X/LB 1.0180 1.0460						
1H4 6401. 7425. 000. 003.04						
ALPHA (3) = 4.00! BETA (1) =	-3.875 MACH = .90140	Q = 601.01	a	= 1055.6	RN/L	= 3.5771
SECTION (1)BODY FLAP LOWER	DEPENDENT VARIABLE CP					
X/LB 1.0190 1.0450						•
PHI .000 .3207 .1253 +6.000 .2052 .0590						
ALPHA (3) = 4.079 BETA (2) =	.183 MACH = .90140	a = 501.01	۵	= 1056.6	PN/L	= 3.5771
SECTION (1)BODY FLAP LOWER	DEPENDENT VARIABLE CP					
X/L9 1.0180 1.0460						
1Hd 1310 - 13196 - 1940 1950 - 1961 - 1960 - 1940						
ALPHA (3) = 4.00" BETA (3) =	4.242 MACH # .90140	a = 601.01	a	= 1056.6	FN/L	3.5771
SECTION (1) BODY FLAP LOWER	DEPENDENT VARIABLE CP					

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1.0460

1.0180

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PH1 .000 40.000

(XEB374)	1058.6 EN/I = 1058.6			
	.			
RB BODY FLAP LWR				
AMES 11-073(0A148) -140A/B/C ORB BODY FLAP LWR	-3.872 MACH = .90130 0	DEPENDENT VARIABLE CP		
	ALEHA (4) = 7.933 BETA (1) =	SECTION (1) BOOY FLAP LOWER	X/LB 1.0190 1.0469	

٥ 600.85 . 90130 DEPENDENT VARIABLE CP MACH (S BETA SECTION (1) BODY FLAP LOWER 1.0190 1.0450 .3595 .1398 .2331 .0410 8.028 ALPHA (4) = .000 40.000 40.00g X/LB

1055.6

1055.5 600.85 a = .90130 DEPENDENT VARIABLE CP 4.235 MACH 13) = ALPHA (4) = 8.631 BETA SECTION 1 11800Y FLAP LOWER .3785 .1394 .2113 .0213 1.0180 1.0450 PHI . CGB #0.000 X/LB

3.5771

1056.9 601.36 Ö .90157 DEPENDENT VARIABLE CP MACH -3.859 ALPHA (5) = 11.930 BETA SECTION (1) BOOY FLAP LOWER

1.0180 1.0460 X/LB

.4665 .1524 .2793 .0708 .000 40.030

1056.9 ۵ 501.35 ø .90157 DEPENDENT VARIABLE CP MACH . 183 # (2 _ BETA SECTION (1) BODY FLAP LOWER = 12, 320 ALPHA (5)

3.5829

1.0180 1.0460

. 5534 . 2468 PK1 .000 40.000

TABULATED PRESSURE DATA - DAIWB (AMES 11-073-1) DATE 13 FEB 76

ORB BODY FLAP LWR AMES 11-073:041481 -1404/B/C

= 601.36 o 4.256 MACH = .90157 BETA (3) =

DEPENDENT VARIABLE CP

SECTION : 1:800Y FLAP LOWER 1.0180 1.0460 an/x

ALPHA (5) = 12.054

. 1530 . 0284 .4081 S2155. P71 . 030 40. 030

1056.9

(XEB674)

BN/L = 3.5829

PAGE 5103

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(XE0075) (C. 2.5.0)

AMES 11-073(0A148) -140A/B/C GRB BODY FLAP LWR

REFERENCE DATA				PARAMETRIC	#E #L f)	
SREF = 2890.0000 \$0.FT. XMAP = 10 LREF = 474.8000 IN. YMAP = BARF = 935.080 IN. ZMAP = 3 SCALE = .0300	1076.6910 IN. XO .000c IN. YO 375.0000 IN. ZO		RUDDER = BDFLAP = R-ELVN =	-160.00 -160.00 -160.00	ド # # () () () () () () () () () () () () () (200 000 000 000 000
ALPHA (1) = -3.999 BETA (1) =	-7.854 MACH # .59648	0 = 594.32	a.	# 6385	Z	* 4.股57事
SECTION (1) BODY FLAP LOWER	DEPENDENT VARIABLE CP					
X/LB 1.0186 1.0460						
2540.+ 5595. CCD.04 1Hd						
ALPHA (1) = -3.939 BETA (2) =	-3.848 MACH = .39648	0 = 594.32	a.	4. (8.0) 4. (8.0) 4. (8.0)	17.74	* L.8575
SECTION (1 BODY FLAP LOWER	CEPENDENT VARIABLE CP					
X/LB 1.0180 1.0460						
FEH2: 1122 000:04						
ALPHA (1) = -3.939 BETA (3) =	. 197 MACH = .59648	0 = 594.32	a.	# 8359.4	ž	9 G G 7 + +
SECTION (1:8007 FLAP LOWER	DEPENDENT VARIABLE CP					
X/LB 1.0:83 1.0462						
9850. 8855. 000. 8870. 8855. 000.04						
ALPHA (1) = +3.926 BETA (4) =	9.265 MACH # .59548	0 * 594.32	a .	# 13861 #	38V	# T 850
SECTION (1)8007 FLAP LOWER	DEPENDENT VARIABLE CP					
X/LB 1.0:30 1.0460	•					
FH1 CO10 SH15. COC. CH						

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DATE 13 FEB 75 TABULATED PR	PPESSURE DATA - 04148 (AMES 11-073-1)	-073-1				_	PAGE 6105	105
¥ .	AMES 11-073(0A148) -140A/B/C	ORB BODY FLAP LWR	LAP LWR		(XE8G75)	23		
ALPHA (1) = -3.941 BETA (5) =	8.332 MACH = .59648	"	594.32	۵	₹ 2386.4	RN/L	<i>*</i>	4.8576
SECTION (1)BODY FLAP LOWER	DEPENDENT VARIABLE CP							
X/LB 1.0180 1.0460 -								
PHI . 000 . 2008 C228 + 0.000 0961 C538								
ALPHA (2) = .043 BETA (1) =	-7.890 MACH = .59624	r 0	593.85	۵.	2386.3	FN/L	<i>*</i>	4.8579
SECTION (1) BODY FLAP LOWER	DEPENDENT VARIABLE CP							
X/LB 1.0180 1.0460								
PH1 . 000 . 2406 0374 . 000 . 1223 2296								
ALPHA (2) = .091 BETA (2) = .	-3.863 MACH = .59624	#	593.85	a	= 2386.3	RN/L	#	4.8579
SECTION (1)BODY FLAP LOWER	DEPENDENT VARIABLE CP							
X/LB 1.0180 1.0460								
PHI .600 .23050309 .00000 .15190384								
ALPHA (2) = .092 BETA (3) =	.181 MACH = .59624		593.85	Q.	= 2386.3	3N/L	± 	4.8579
SECTION (1) SODY FLAP LOWER	DEPENDENT VARIABLE CP							
X/LB 1.0180 1.0460								
PH1 . 200 . 2349 . 0041 . 1278 6940								
ALPHA (2) = .077 BETA (4) =	4.247 MACH = .59624		593.85	0.	* 23P5.3	RN/L	# H	4.8579
SECTION (1)BGDY FLAP LOWER	DEPENDENT VARIABLE CP							
X/LB 1.0180 1.0460								
PHI .000 .23160049 +0.000 .11450501								

	AMES 11-073(0A148) -140A/8/C	CRB BODY FLAP LUR		(XEBG75)	•		
ALPHA (2) = .073 SETA (5) =	8.305 MACH = .59624	0 = 593.85	۵	= 2386.3	RN/L	± 4.8579	
SECTION (1780DY FLAP LOWER	DEPENDENT VARIABLE CP						
X/L9 1.0190 1.0460							
PH1 .300 .23800153 49.000 .10460642							
ALPHA (3) = 4.023 BETA (1) =	-7.904 МАСН ≈ .59640	0 = 594.21	۵	= 2386.5	RN/L	± 4.8659	
SECTION (1)BODY FLAP LOWER	DEPENDENT VARIABLE CP						
X/LB 1.0180 1.0463							
PH: .000 .2632 .0029 40.000 .15310212							
ALPHA (3) = 4.026 BETA (2) =	-3.864 масн = .59640	Q = 594.21	۵	= 2386.5	RN/L	≠ 4.8659	
SECTION (1)BODY FLAP LOWER	DEPENDENT VARIABLE CP						
x/Le 1.0180 1.0460							
PHI .000 .2533 .0072 .000.00							
ALPHA (3) = 4.153 BETA (3) =	.177 MACH = .59640	0 = 594.21	α.	- 2386.5	RN/L	± 4.8659	
SECTION (): BODY FLAP LOWER	DEPENDENT VARIABLE CP						
094071 081071 87/X							
FH; .0002524 .0105 90.000.14570459							
ALP44 (3) = 4.012 BETA (4) :	4.240 HACH = .59640	0 = 594.21	Q.	₹ 5382.5	Tytes	= 4.8559	
SECTION 1 119COM FLAP LOWER	DEPENDENT YARIABLE CP						
7.13							
PH1 000 2535 000 9100 - 1209 1000 000 000 000 000 000 000 000 000							

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0A1E 13 FEB 75	CLATED	PRESSURE	TABULATED PRESSURE DATA - OATH8 (AMES 11-073-1)	(AMES 1)	1-073-1	•					u,	PAGE	6109
		AMES 11-	AMES 11-073(0A148) -140A/B/C	140A/B/C	ORB B	ORB BODY FLAP LWR	<u> </u>			(XE8675)			
ALPHA (4) = 9.078 SETA (ii G	9.890	MACH = .59626	.59626	ø	= 593.97	76	a	ິດ #	2386.7	RN/L	u	4.8657
SECTION (1) BODY FLAP LOWER		3430	DEPENDENT VARIABLE CP	E CP									
X/LB 1.0180 1.0460													
1500. 0485. 000. 1500 0485. 000.04												is.	.a.
ALPHA (5) = 11.984 BETA (= = =	-7.850	MACH =	. 59636	o	= 594.09		Q.	₩ •	2386.3	RN/L	•	4.8671
SECTION (1) BODY FLAP LOWER		DEPE	DEPENDENT VARIABLE CP	E CP			• •••						
X/LB 1.0180 1.0460													
PHI . 000 . 3054 . 0259 90.000 . 1115 0001													
ALPHA (5) = 12.003 BETA (11 (2)	-3.840	MACH	.59636	ø	€ 594.09	60	۵.	iii #	2386.3	RN/L	W	4.8571
SECTION (1.80DY FLAP LOWER		3430	DEPENDENT VARIABLE CP	E CP									
X/LB 0.0180 1.0460													
88800 - 8885													
क्राप्त हा हा का प्रमान	ñ	180	MACH	.59635	CI	± 594.03	g	0.	δί P	2385.3	807	6	. 887
BEROT ARTH NOTES - 1 POTESTS		ii iii c)	CEPENDENT VARIABLE CP	E CP									
0960 1 0810 1 BTM													
240'- 256 00'0- 6500' 050: 00' 0-													
V V CONTRACTOR OF THE CONTRACT	•	T Ni	0 () ()	59536	m	50° 469 ×	Ġ	a	i i	3386. 3	-1		1 11: 11:
6000 400 400 000 000 000 000 000 000 000		Gd31	TEPENDENT ARTABLE CP	E CP									
19m2 : 3€11 H													
Maria Ma Maria Maria Maria Maria Maria Maria Maria Maria Maria Maria Ma Ma Maria Maria Maria Maria Ma Ma Ma Ma Ma Ma Ma Ma Ma Ma Ma Ma Ma													

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73-1) TABULATED

ORB BODY FLAP LWR 594.09 AMES 11-073(0A148) -140A/B/C 8.307 MACH = .59636

- 4.8571

RN/L

= 2386.3

(XE8675)

PAGE 610S

DEPENDENT VARIABLE CP 12.114 BETA (5) = SECTION (1) BODY FLAP LOWER ALPHA (5) =

1.0180 1.0463 e1/x

.0165 .1577 PH1 .000 **4**0.000

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PAGE 5:10

(XE8676) (05 AUG 75 ORB BODY FLAP LWR AMES 11-073(0A148) -140A/B/C

2.9057 2.5093 2.9057 SPOBRK * L-ELVN # MACH * R L RNI PARAMETRIC DATA -10.000 -11.700 -10.000 = 440.65 440.65 440.55 441.83 RUDDER # BDFLAP # R-ELVN # ٩. ۵. 598.57 598.57 598.57 598.64 O G ø -3.853 MACH = 1.3930 MACH = 1.3935 = 1.3939 = 1.3913 DEPENDENT VARIABLE CP DEPENDENT VARIABLE CP DEPENDENT VARIABLE CP DEPENDENT VARIABLE CP XMSP = 1076.6900 IN. XO YMSP = .0000 IN. YO ZMSP = 375.0000 IN. ZO HACH MACH 4.275 161 -3.865 ALPHA (1) = -4.004 BETA (1) = (S) = (3) = 1 1 ALPHA (1) = -4.001 BETA ALPHA (1) = -3.983 BETA BETA REFERENCE DATA SECTION (1) BODY FLAP LOWER SECTION (1) BODY FLAP LOWER SECTION (1)BODY FLAP LOWER SECTION (11803Y FLAP LOWER 2590,0000 S0.FT. 474,8000 IN. 935,0590 IN. -.4165 1.0180 1.0450 -.4382 -.4511 -.3989 -.3221 1.0183 1.0460 -.4395 -.4558 -.3980 -.3262 1.0180 1.0460 -,4490 -,4567 1.0180 1.0450 . 029 -.4038 ALPHA (2) = PH1 .000 %C.000 PHI . CGC +0.300 .000 40.300 40.000 40.000 SAEF = SCALE = SCALE X/LB ā T a BT.X X/LB

DATE 13 FEB 75 TABULATED PRESSURE DATA - CAI48 (AMES 11-073-1)					PAGE 6111	
AMES 11-073(CA148 -140A/B/C ORB BODY FLAP LWR	AP LWR		(XEBG76)	-		
ALPHA (2) = .033 BETA (2) = .181 MACH = 1.3913 0 = 5	598.64	a	= 441.83	RN/L	₹ 2.9093	93
SECTION (1) BODY FLAP LOWER DEPENDENT VARIABLE CP						
X/LB 1.0180 1.0460						
PHI .00040414219 .000.04						
ALPHA (2) = .029 BETA (3) = 4.255 MACH = 1.3913 0 = 5	598.64	۵	= 441.83	RN/L	≈ 2.9093	93
SECTION (1) BODY FLAP LOWER DEPENDENT VARIABLE CP						
X/LB 1.0180 1.0460						
PHI .00041814349 40.00038733088						
ALPHA (3) = 3.961 BETA (1) = -3.871 MACH = 1.3919 G = 5	599.88	ð.	= 442.29	FNVL	- 2.9174	ž.
SECTION (1)BODY FLAP LOWER DEPENDENT VARIABLE CP						
X/L8 1.0180 1.0460						
PHI .C0037343851 40.00037272747						
ALPHA (3) = 3.962 BETA (2) = .187 MACH = 1.3919 Q = 5	599.88	۵	= 442.29	FN/L	= 2.9174	į.
SECTION (1) BODY FLAP LOWER DEPENDENT VARIABLE CP						
X/LB :.0183 1.0460						
PH1 .000 +.37183659 .00.0036292834						
ALPHA (3) = 3.963 BETA (3) = 4.246 MACH = 1.3919 0 = 5	599.88	a .	± 442.29	RN/L	= 2.9174	Į.
STOTION (1) BODY FLAP LOWER DEPENDENT VARIABLE CP						
X/LB 1.0180 1.0460						
PH1 .00037873954 .0.00035692789						

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			AMES 11-073(0A148) -140A/B/C	84140	-140A/B/C		BODY F	ORB BODY FLAP LAR			(XE8676)			
H (t) VHUIT	7.887 BETA (1)	ø	-3.866 MACH		= 1.3932	o	Ħ	600.00	a		441.59	RN/L	ħ	2.9153
SECTION (1) BODY FLAP LONER	N FLAP LOWER		DEPENDENT VARIABLE CP	VAR	IABLE CP									
X/L8 1.0180	1.0460													
PH: .000. .045352.	.83619 ?≥+96													
ALPHA (4) =	7.964 BETA (2)	11	. 189 МАСН		= 1.3932	o	*	600.00	۵		441.59	FN/L	#	2.9153
SECTION (1)BODY FLAP LOWER	N FLAP LOXER		DEPENDENT VARIABLE CP	VARI	ABLE CP									
x/LB 1.0180	0 1.0460													
B448 000.04	83563 82563													
ALPHA (4) =	7.961 BETA (3)	tt	4.247 MACH	"	1.3932	O	#	600.00	Q.		441.59	PN/L	#	2.9153
SECTION (1) BODY FLAP LOWER	Y FLAP LOWER		DEPENDENT VARIABLE CP	VARI	ABLE CP									
X/LB 1.0150	0 1.0460													
PH: .0003508 +0.000 -3436	83504 62711													
ALPHA (5) = 1	11.871 BETA (1)	n	-3.849 MACH	!! I	1.3930	0		600.10	Q .		441.32	1/NE	ru p	2.9227
SECTION (1)BODY FLAP LOWER	Y FLAP LOWER		DEPENDENT VARIABLE CP	VARI	ABLE CP									
X/L9 1.0180	0 1.0450													
PHI .0003209 40.0003221	93321 12159													
ALPHA (5) = 1	11.913 BETA (2)	p	. 191 MACH	*	1.3930	æ	•	600.10	۵.	*	441.82	RN/L	nu H	2.9227
SECTION (1)300Y FLAP LOKER	T FLAP LOWER		DEPENDENT VARIABLE CP	VARI	ABLE CP									
X/LB 1.3180	0 1.0460													
PH1 .0003147 40.0003322	73243													

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TABULATED PRESSURE DATA - DAIWB (AMES 11-073-1)	AMES 11-073(0A148) -140A/B/C ORB BODY FLAP LUR) BETA (3) = 4.262 MACH = 1.3930 0 = 600.10 P = 441.82 RN/L = 2.9827	P LOWER DEPENDEN: VARIABLE CP	09+0		3 BETA (1) = -3.830 MACH = 1.3521 Q = 600.28 P = 442.53 RN/L = 2.9208	AP LOWER DEPENDENT VARIABLE CP	0400		7 BETA (2) = .190 MACH = 1.3921 G = 600.28 P = 442.53 RN/L = 2.9208	AP LOWER DEPENDENT VARIABLE CP	∵S+O·		7 BETA (3) = 4.290 MACH; = 1.3921 Q = 600.28 P = 442.53 RN/L = 2.9208	AP LOWER DEPENDENT VARIABLE CP	ე9+0∵	. 29595.
TT.		(3) =	SECTION (1) BODY FLAP LOWER DE	X/LB 1.0:80 1.0460	PHI .00031593243 40.00032832640	(1) =	SECTION (1) BODY FLAP LOWER DE	X/LB 1.0:60 1.0460	PH1 .00029202992 40.00033052162	(5) ≠	SECTION (1) BCDY FLAP LOWER DE	X/LB 1.0180 1.0460	PH1 .cao29472998 .bo.oo:32492534	(2) =	SECTION (1)800Y FLAP LOWER DE	X/LB 1.0183 1.0460	РН! . 000 2808 2959

(XE8677) (05 AUG 75)

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	ORB BODY FLAP LIMP
-	B00
	ORB
D PRESSURE DATA - UAITA CAMES 11-0/3-1 /	-140A/B/C
DATA - CAIL	AMFG 11-073(0A148) -140A/B/C
PRESSURE	AMFS 11-
0	

PARAMETRIC DATA	RUDDER = -10.000 SPOBRK = .000 BOFLAP = -11.700 L-ELYN = 10.000 R-ELYN = -10.000 MACH = 1.250	54 0 = 599.63 P = 552.28 RN/L = 3.0204	a,			154 0 = 599.63 P = 552.28 RN/L = 5.0504	Q.		i	154 0 = 599.63 P = 552.28 :N/L = 5.0c04	a,			•51 0 ≈ 599.58 P ≈ 552.51 34/L ≈ 5.5185	<u>a.</u>		
DEFERENCE DATA	# 2690. # 474. # 936.		SECTION (1) BODY FLAP LOWER DEPENDENT VARIABLE CP	X/LB 1.018G 1.045G	PH1 .00054175604 40.0004695 .3641	ALPHA (1) = -4.011 BETA (2) = .186 MACH # 1.2454	SECTION (1) 500Y FLAP LCHER DEPENDENT VARIABLE CP	X/LB 1.6180 1.0460	PHI .000 - 5478 - 5599 46.000 - 4390 - 3752	ALPHA (1) = -4.023 BETA (3) = 4.275 MACH = 1.2454	SECTION (1)BODY FLAP LOWER DEPENDENT VARIABLE CP	X/LB 1.0180 1.0463	PH; ,0005590579+ 40.00047723863	ALPHA (2) = .012 BETA (1) = -3.853 MACH = 1.2451	SECTION 1 118007 FLAP LOWER DEPENDENT VARIABLE CP	X/LB 1.0180 1.0460	PH] .00050245192

ALPHA (2) =	DATE 13 FEB	176	m +i-	TABULATED	PRESSURE	DATA -	PRESSURE DATA - OAI48 (AMES 11-073-1)	ÆS 11-	-073-1	•				д.	PAGE 6115	स
1.0180 1.0460 1.0460			. .		ANES 11	-073t0A	148) -140A/		ORB BC	DY FL	AP LWR		(XE8G77)			
1.0180 1.0460 1		+10.	BETA		.176	MACH	# 1.24f	::	G		99.58	<u>α</u> .	552.51	%		3.0183
1.0180 1.0460 1	SECTION (DIBOOY FLAP LOS	. B.		0£ P{	NDENT	ARTABLE CF	•								
10.000 5003 5320 ETA 13) = 4.255 MACH = 1.2451 0 = 599.58 P = 552.51 RVIL 10.000 4523 3504																
1.0180 1.9902y FLAP LOKER 1.31 = 4.285 MACH = 1.2451 0 = 599.58 P = 552.51 PN/L 1.0180 1.9462 5364 .																
1.0180 1.9602 FLAP LOMER DEPENDENT VARIABLE CP		.025	BETA		4.255	MACH	* 1.245	51	o		99.58	۵	552.51	1 X		3.0183
1.0180 1.0460 1.0460 1.0460 1.0460 1.0460 1.0460 1.0460 1.0460 1.0406 1.0460 1.0406 1.0460 1	SECTION (1)BODY FLAP LO	MER		DEPI	NOENT	ARIABLE CF									
1000 -19702 -15392 11.0190 1.0390 -15393 12.000 -19702 -13594 11.0190 1.0390 -19455 11.0190 1.0390 -19455 11.0190 1.0390 -19455 11.0190 1.0390 -19455 11.0190 1.0390 -19455 11.0190 1.0390 -19455 11.0190 1.0390 -19455 11.0190 1.0390 -19455																
1.018																
1.6180 1.6450		3.997	BETA		-3.868	MACH	= 1.24	15	O		99.58	α.	552.51	7		3.0187
1.C180 1.C+50 1.C0047024850 1.03045793193 1.0185 1.0450 1.0185 1.0450 1.01854945 1.00047194945 1.00047194945	SECTION (DECOY FLAP LO	G:		DEP	INGCNI	VARIABLE CF	n.								
.00047024950 .03043793193 A (3) = 3.988 BETA (2) = .182 MACH = 1.2451 Q = 599.58 P = 552.51 RN/L TION : 1:803V FLAP LOWER DEPENDENT VARIABLE CP 1.0195 1.0450 1.0195 1.04945 .00047194945 .00047893221	x/LP															
1 (3) = 3.988 BETA (2) = .182 MACH = 1.2451 Q = 599.58 P = 552.51 RN/L 1.0130 1.0460 1.013047194945 00047593221															,	
110N : 1:800Y FLAP LOWER 1.0:35 1:0460 1.00047194945 000045545221	m	3.988	BETA		. 182	E SEC		23	ø		99.58	۵.	552.51	1/NE		3.0187
1.0:35 000 -4719 000 -458+-	SECTION :	DBOOM FLAP LO	H 23		050	ENGENT	VARIABLE CF	۵								
0174.1 0104.1	X/LB															
					,											

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ALPHA (3) = 3.939 BETA SECTION (1)800Y FLAP LOWER ORIGINAL PAGE IS
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0.084.1 1.4833

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1.0180 1.0460

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CEPENDENT VARIABLE CP YACH.

TABILATED PRESSURE DATA - DAIH8 (AMES 11-073-1)

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	ય	-11 SJW	37310A	148) -	AMES 11-073(0A148) -140A/B/C	ORB B	BODY FLAP LKR	म्या वा		X	(XEB677)			
ALPHA (4) = 7.974 BETA (1)	11	-3.859	MACH		= 1.2449	o	ii ii	593.64	a	552.75	15	Ž	₹ 3.0238	ത
SECTION (1) BODY FLAP LOWER		13430	DENT	DEPENDENT VARIABLE CP	LE CP									
X/LB 1.0130 1.0460														
1Hd - 000 - 0104 - 000 - 0104 - 000 04														
ALPHA (4) = 7.979 BETA (2)		. 184	MACH		= 1.2443	ø	بن بن	559.64	۵	552.75	ĸ	Z.	₹ 3.5238	œ
SECTION (1) BODY FLAP LOWER		i3dE0	DENT	DEPENDENT VARIABLE CP	LE CP									
X/LB 1.0180 1.0460														
HH - 000 - 1624 - 000 - 1624 - 000 05														
ALPHA (4) = 7.978 BETA (3)		¥.242	MACH		₽ 1.2449	Ø	,	599.64	α .	= 552.75	ħ.		3.0238	eg.
SECTION (1)BODY FLAP LOWER		13d30	DENT	DEPENDENT VARIABLE CP	LE CP									
X/LB 1.0190 1.0460														
PH1 .ccc - +458 - 4676 40.000 - 43143 - 3123														
ALPHA (5) = 11.961 BETA (1)	#	-3.847	MACH		= 1.2454	ø	# 60	599.63	۵.	* 552.28	82.	7/8	₹ 3.5229	gn.
SECTION (1) BODY FLAP LOWER		DEP	*DENT	DEPLINDENT VARIABLE CP	LE CP									
X/LB 1.0180 1.0460									*					
PH1 .037 - 1254038 40.03037902727														
ALPHA (5) = 11.970 BETA (2)		96	MACH		* 1.25	o		599.63	۵.	* 555.28	8 5	Ž	3.0229	ភ្នា
SECTION (1) BODY FLAP LOWER		13.630	DENT	DEPENDENT VARIABLE CP	LE CP									
X/LB 1.0180 1.0460														
PHI .000 4147 4363 40.000 4154-														

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DATE 13 FEB 76

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1.2454

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4.260 MACH

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BETA

ALPHA (5) = 11.952

DATE 13 FEB 75

SECTION (1) BODY FLAP LOWER

1.0180 1.0460

X/LB

- . 4399 - . 2961

-.4195 -.4205

PH1 .003 40.003

DEPENDENT VARIABLE CP

XE8677 558.88

ORB BODY FLAP LWR

TABULATED PRESSURE DATA - DAIHB (AMES 11-073-1)

AMES 11-073(04148) -140A/B/C

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TABULATED PRESSURE DATA - DAIM8 (AMES 11-073-1)

CHEBRA

AMES 11-073/04148) -1404/8/C 038 800Y FLAP LWR

METAL CHEWISMENTAL	RUCCER # 1.0.000 670594 # 151050 BOFLAP # 11.750 1.511 # 151050 R-ELVN # 15.000 1.450 # 1.150	# 1.0993 0 # 599.81 P # 709.05 # 3.1836	ARIABLE CP			= 1.0933 0 = 599.81 P = 709.75 PN = 3.1885	RIABLE CP			= 1.0993 0 = 599.81 P = 729.05 PN/L = 3.3836	RIABLE CP			368)'E + T.Na ©E"501 + d 16'655 + 0 060'1 ×	RIABLE CP		
HIFERENCE CATA	SPEF = 2630.000 50.FT. XMRP = 1076.6800 IN. XO LREF = 474.8000 IN. YMRP = .0000 IN. YO BREF = 556.0590 IN. ZMRP = 375.0000 IN. ZO SCALE = .0300	ALPHA (1) = -4,052 BETA (1) = -3.939 MACH	SECTION (1) \$309 FLAP LOWER	X/LB :.C!60 1.0+50	189 8188 080.04 080 89.4 080.04	ALPHA (13) = 14,359 BETA (2) = 1195 MACH	SECTION (1.900Y FLAP LOWER DATE)	X/18 1.0180 1.0460	18906 000.05 0004 000.05	ALPHA (!) = 44,055 BETA (3) = 4,277 MACH	SECTION (1)800Y FLAP LOWER DEPENDENT VARIABLE CP	X//S 1.030 1.0450	FH: - 526 - 5113 - 570; +0.036 - 5524 - 4599	ALPHA (2) = .040 6274 (1) = -3.853 MACH	SECTION (1)800Y FLAP LOWER DEPENDENT VARIABLE CP	X/LB 1.0180 1.0450	1446 - 6168 - 000 1446 - 6168 - 000 1476 - 000 04

DATE 13 FEB 75 TABULATED PAESSURE DATA - O.	?-073-1)			v.	PAGE 6119
AMES 11-073(0A1	URB BODY FLAP LWR		(XE8G78)	a	
ALPHA (2) = .041 BETA (2) = .186 MACH .0344	0 = 599.71	۵	= 709.30	RN/L	3.1896
SECTION (1) BODY FLAP LOKER DEPENDENT VARIABLE CM		,			
X/LB 1.0180 1.0462					
PHI .00065306926 40.00046213800					
ALPHA (2) = .036 BETA (3) = . 4.252 MACH * 1.0990	0 = 599.71	α.	= 709.30	RNIL	3.1896
SECTION (1) BODY FLAP LOWER DEPENDENT VARIABLE CP					
X/LB 1.0160 1.0460					
PH1 .C0067526853 +0.C0053574180					
ALPHA (3) = +.306 SETA (1) = -3.864 MACH = 1.0989	Q = 599.58	۵.	= 709.30	RN/L	3.1896
SECTION (1) SODY FLAP LOWER DEPENDENT VARIABLE CP					
X/LB 1.0180 1.0460					
PHI 					
ALPHA (3) = 4.004 BETA (2) = .194 MACH = 1.0989	0 = 599.58	۵	₹ 79.30	RNL	* 3.1896
SECTION (1) BODY FLAP LOWER DEPENDENT VARIABLE CP					
X/L8 1.0180 1.0460					
PH1 .00063936582 +0.000460+3539					
ALPHA (3) = 4.004 BETA (3) = 4.242 MACH = 1.0989	0 = 599.58	c	₹ 709.30	RN/L	3.1896
SECTION (1) BODY FLAP LOWER DEPENDENT VARIABLE CP					
X/LB 1.0:80 1.0%60					
PHI 6719 6719 6719 6719 6719					

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DATE 13 FE 76

AMES 11-073(0A148) -140A/B/C ORB BODY FLAP LMR (XEBG78)	TA (1) = -3.857 MACH = 1.1003 Q = 600.35 P = 708.37 RN/L = 3.925	R DEPENDENT VARIABLE CP			TA (2) = .186 MACH = 1.1003 Q = 600.35 P = 708.37 RN/L = 3.1925	R DEPENDENT VARIABLE CP			TA (3) = 4.238 MACH = 1.1003 Q = 600.35 P = 708.37 RN/L = 3.1925	R DEPENDENT VARIABLE CP			7A (1) = -3.838 MACH = 1.0980 0 = 599.15 P = 710.01 RN/L = 3.1917	R DEPENDENT VARIABLE CP			TA (2) = .194 MACH = 1.0980 0 = 599.15 P = 710.01 RN/L = 3.1917	R DEPENDENT VARIABLE CP		
	=	SECTION (1'BODY FLAP LOXER	X/LB 1.0180 1.0460	PHI .00060356028 .00000+		SECTION (1) BODY FLAP LOWER	X/L9 1.0180 1.0460	PHI .00061456351 40.00045023265		SECTION (1)BODY FLAP LOWER	1.0:80 1.0460	PHI .30061935411 46.00051383689	ALPHA (5) = 11.963 BETA (1) =	SECTION (1) BODY FLAP LOWER	X/LB 1.0180 1.0460	PH1 .00058785930 +0.000+383323+		SECTION (1)BODY FLAP LOWER	1.0180 1.0460	ī

TABULATED PRESSURE DATA - DA148 (AMES 11-073-1) DATE 13 FEB 75 ORE BODY FLAP LWR AMES 11-073(0A148) -140A/B/C 710.01 o 4.256 MACH = 1.0980 BETA (3) = ALPHA (5) = 11.958

DEPENDENT VARIABLE CP SECTION (1) BODY FLAP LOWER

1.0180 1.0460 X/LB -.6i36 -.3694 -.5939

PAGE 6121

(8C983X)

RN/L

- 3.1917

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3.5827
                                                                                                                                                                                                     3.5827
  (XE8679) ( 05 AUG 75 )
                                                                                                PN
PN
                                                                                                                                                                                                     RN/L
                        PARAMETRIC DATA
                                                                                                = 1058.8
                                          -10.000
-11.700
-10.000
                                                                                                                                                                                                     1058.8
                                                                                                                                                                                                                                                                                                          1058.8
                                                                                                                                                                                                                                                                                                                                                                                                               * 1058.8
                                         RUDDER =
BDFLAP =
R-ELVN =
                                                                                               ۵.
AMES 11-073(04148) -1404/8/C ORB BODY FLAP LWR
                                                                                              600.2±
                                                                                                                                                                                                                                                                                                        500.24
                                                                                                                                                                                                                                                                                                                                                                                                              599.75
                                                                                                                                                                                                   600.24
                                                                                              O
                                                                                                                                                                                                                                                                                                                                                                                                               O
                                                                                          -3.840 MACH * .89997
                                                                                                               DEPENDENT VARIABLE CP
                                                                                                                                                                                                                     DEPENDENT VARIABLE CP
                                                                                                                                                                                                                                                                                                                            DEPENDENT VARIABLE CP
                                                                                                                                                                                                                                                                                                                                                                                                                                 DEPENDENT VARIABLE CP
                                                                                                                                                                                                                                                                                                                                                                                                            -3.859 MACH
                                                                                                                                                                                                   MACH
                                        = 1076.6800 IN. XO
2 0000 IN. YO
375.0000 IN. ZO
                                                                                                                                                                                                                                                                                                       MACH
                                                                                                                                                                                                  .202
                                                                                                                                                                                                                                                                                                       4.293
                                                                                       ALPHA ( 1) = -4.051 BETA ( 1) =
                                                                                                                                                                                                                                                                                                                                                                                                             ± (I)
                                         XMRP
YMRP
ZMRP
                                                                                                                                                                                             ALPHA ( 1) = -4.055 BETA
                                                                                                                                                                                                                                                                                                  ALPHA ( !) = -4.673 BETA
                                                                                                                                                                                                                                                                                                                                                                                                          .045 BETA
                 REFERENCE DATA
                                                                                                           SECTION ( 1) BODY FLAP LOWER
                                                                                                                                                                                                                 SECTION ( 1) BODY FLAP LOWER
                                                                                                                                                                                                                                                                                                                       SECTION ( !) BODY FLAP LOWER
                                                                                                                                                                                                                                                                                                                                                                                                                             SECTION ( 1)BODY FLAP LOWER
                                      2590.0000 SO.FT.
474.8000 IN.
936.0680 IN.
                                                                                                                                                                -.4443 -.3155
-.3430 -.2816
                                                                                                                                   1.0183 1.0460
                                                                                                                                                                                                                                      1.0180 1.0460
                                                                                                                                                                                                                                                                                                                                                                           -.4473 -.3055
-.3265 -.2164
                                                                                                                                                                                                                                                                      -.4313 -.3084
-.3282 -.2487
                                                                                                                                                                                                                                                                                                                                             1.0180 1.9450
                                                                                                                                                                                                                                                                     40.000
                                                                                                                                                                . 000
40. 000
                                                                                                                                                                                                                                                                                                                                                                                                         4LPH3 (2)
                                                                                                                                                                                                                                                                                                                                                                          900 - 04
40 - 000
                                     SREF = BREF = SCALE = SCALE
                                                                                                                                                                                                                                      X/LB
                                                                                                                                                                                                                                                                                                                                                                 ď
                                                                                                                                XILB
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TABULATED PRESSURE DATA - DAIMB (AMES 11-073-1)

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DATE 13 FEB 76

DATE 13 FE9 76 TABULATED P	PRESSURE DATA - DAI48 (AMES 11-073-1)	1-073-1)			_	PAGE 6123
	AMES 11-073(0A148) -140A/B/C	ORB BODY FLAP LWR		(XE8679)		
ALPHA (2) = .042 BETA (2) =	.192 ;AACH ≈ .89957	0 = 599.75	a .	1058.8	2	1 5771
SECTION (1)BODY FLAP LOWER	DEPENDENT VARIABLE CP					
X/LB 1.0180 1.0450						
PHI .00043823236 40.00031672394						
ALPHA (2) * .032 BETA (3) =	4.260 MACH = .89957	0 = 599 75	0	0	ā	
SECTION (1)BODY FLAP LOWER	NDENT VARIAB				787 L	1//0.5
X/LB 1.0182 1.0460						
PH: .000 - 47903382 40.00034542156						
ALPHA (3) = 4.023 BETA (1) =	+3.861 MACH = .90070	44.009 = C	•	1057.3	200	= 7 F703
SECTION : 1:00DY FLAP LOWER	DEPENDENT VARIABLE CP					
X/LB 1.0180 1.0450						
PHI .00045593224 .40.00035952663						
ALPHA (3) = 4.017 BETA (2) =	.197 MACH = .90070	4+ 000 = 0	Q.	1,057.3	ă	2 6703
SECTION (1) BODY FLAP LOWER	ARIAB					
X/LB 1.0180 1.0463						
PHI .00044253185 .40.00031302168						
ALPHA (3) = 4.017 BETA (3) =	4.251 MACH = .90070	0 = 600.44	•	1057.3	Ž	2025 2 =
SECTION (1)800Y FLAP LOWER	DEPENDENT VARIABLE CP					
X/LB 1.0180 1.0460						-
PH1 .00048713320 40.00035051991						

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MABILATED PRESSURE DATA - CAINB (AMES 11-073-1 1

PAGE 3049

	-073(0A148) -	RB BODY F		1XE	(XE8679)		
ALPHA (4) = 7.937 BETA (1) = -3	-3.857 MACH = .90017	Q = 600.17	۵.	- 1058.1	I RN/L	# FO	3.5825
SECTION (1) BODY FLAP LOWER	DEPENDENT VARIABLE CP						
X/LB 1.0180 1.0460							
PHI -000 - 4933 - 3445 -000 - 3889 - 52429							
4LPHA (4) = 7.934 BETA (2) =	.192 MACH = .90017	Q * 600.17	Δ.	= 1058.1	1 RN/L		3.5825
SECTION (1) BODY FLAP LCHER	DEPENDENT VARIABLE CP						
X/LS 1.0:80 1.0463							
3+53- 5485- 000-54 35+£'- 895+'- 000-54							
ALPHA (4) = 7 926 827A (3) = 4.	4.250 MACH = .90017	0 = 600.17	Ω.	= 1058.1	I RNA	ii LJ	3.8325
SECTION (1)BODY FLAP LOWER	DEPENDENT VARIABLE CP						
47L9 1.6180 1.6482							
PHI D00 - 5069 - 8875 +0.000 - 8830 - 1840							
ALPU; (5) = 11.959	-3.847 MACH ≈ .89890	0 = 599.14	α.	= 1059.2	TANE	roj H	3.5769
SECTION ()-BODY FLAP LOWER	CEPENDENT VARTABLE CP						
3.00 (a) (b) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c							
25081 - 60813 - 000 Ot							
A_PAA (S) = 11,975 (E) =	.196 MACH ≈ .89890	a 599.14	۵.	± :059.2	1/1/2	1: i	ur ur ur ur ur ur
SECTION (11205) FLAP LOATR	DEPENDENT VARIABLE CP						
094011 081018 311			•				
군대공본'- 공연영대'- 301'-34 662h'- 명대(81'- 201'-34 '개념							

	RN/L = 3.5769			
(XE8679)	= 1059.2			
	Œ			
ORB BODY FLAP LWR	0 = 599.14			
AMES 11-073(0A148) -140A/B/C	4.265 MACH = .89890	DEPENDENT VARIABLE CP		
4	ALPHA (5) = 11.956 BETA (3) =	SECTION (1) BODY FLAP LOWER	K/LB 1.0180 1.0460	PH; .000552+4299 40.00049112389
	AMES 11-073(04148) -140A/B/C ORB BODY FLAP LWR (XEBG79)	AMES 11-073(0A148) -140A/B/C ORB BODY FLAP LWR (XEBG79) BETA (3) = 4.265 MACH = .89890 0 = 599.14 F = 1059.2 RN/L	11.956 BETA (3) = 4.265 MACH = .89890 0 = 589.14 P = 1059.2 RN/L DY FLAP LOWER	AMES 11-07310A148) -140A/B/C ORB BODY FLAP LWR (XEBG79) 11.956 BETA (3) = 4.265 MACH = .89890 0 = 599.14 P = 1059.2 RN/L DY FLAP LOWER DEPENDENT VARIABLE CP 80 1.0460

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TABULATED PRESSURE DATA - OAIWB (AMES 11-073-1)

ANES 11-073(0A148) -140A/B/C. ORB BODY FLAP LWR

(XERBSS) (05 409 75)

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DATE 13 FEB 76 TABULATED PRESSURE DATA - OAIWB (AMES 11-073-1)		PAGE 5127	
AMES 11-073(0A148) -140A/B/C ORB BODY FLAP LMR	(XEBGBD)		
ALPHA (1) = -3.995 BETA (5) = 8.327 MACH = .59728 0 = 595.86 P =	2386.0 RM	RN/L = 4.8298	80
SECTION (1) BODY FLAP LOWER DEPENDENT VARIABLE CP			,
X/L9 1.0190 1.0460			
PHI .00035952491 .0.0007171172			
ALPHA (2) =05s BETA (1) = -7.896 MACH = .59546 0 = 594.33 P =	2386.5 RN	RN/L + 4, 8222	O:
SECTION (1) BODY FLAP LOWER DEPENDENT VARIABLE CP	٠		
X/LS 1.0180 1.0462			
FHI .00037652599 46.80338083897	•		
ALPHA (2) =008 BETA (2) = -3.854 MACH = .59546 0 = 594.33 P =	2385.5 RN/L	/L = 4.8222	•
SECTION (1)30DY FLAP LOWER DEPENDENT VARIABLE CP			
X:LB 1.0180 1.0450			
PH1 .30035902509 +0.30029252622			
ALPHA (2) = .029 EETA (3) = .176 MACH = .59646 0. = 594.33 P =	2386.5 RN/L	228°C = 1/	_
SECTION (1) BODY FLAP LOWER DEPENDENT VARIABLE CP			
X/LB 1.0189 1.0469			
PH1 .00037582532 \$0.00028352219	•		
ALP4A (2) * .052 BETA (4) * 4.239 MACH * .59646 0 * 594.33 P *	2395.5 RN/L	5528.4 * 1	
SECTION (1) BODY FLAP LOXER DEPENDENT VARIABLE CP			
X/LB 1.0183 1.0469			
FF! - 35722496 -5.00025121973	٠		

				0 9 70 15 71
	4845 114673(UAI49) -140A/B/C	ORB BODY FLAP LWR	(XESOSD)	/·
Atom Atom Book and a sector and	8.284 MACH = .595+6	0 = 594.33	P = 2385.5	RNV1 * 1.8222
SECTION OF THRODY FLAM LOWER	DEPENDENT VARIABLE CP			
X/LS 1.0180 1.0450				
PHI .00035502458 43.00023311730				
ALPHA (3) = 3.933 BETA (1) =	-7.902 MACH = .59628	0 = 593.97	P * 2386.5	RN/L . #. B207
SECTION (1) BODY FLAP LOWER	DEPENDENT VARIABLE CP			
X/LB 1.0:80 1.0450				
FW1 1455 - 5845 - 500 40.000 - 3113 - 3831				
ALPHA (3) = 3.907 9ETA (2) #	-3.866 MACH = .59628	G # 593.97	P = 2386.	E COMPANIE C
SECTION (1) BCDY FLAP LOWER	DEPENDENT VARIABLE CP			
X/LB 1.0180 1.0450				
7452 - 6325 - 300 (4 2552 - 2625 - 300 (4				
ALPHA (3) = 3.989 BETA (3) =	.180 MACH * .59628	0 * 593.97	P - 2386.5	LUCK A . IVAG
SECTION ():BIDY FLAP LOWER	DEPENDENT VARIABLE CP			
X/LB (.0183 1.0460				
145 - 1858 1858 1845 - 1811 1873 1811.				
ALPHA (3) = 3.999 BETA (4) =	4.225 MACH = .59628	9 = 593.97	P = 2386.5	RN/L = 4, 9257
SECTION : 1 BODY FLAP LONER	DEPENDENT VARIABLE CP			
X/L8 1.0180 1.0450				
HO.5002477 + .1863				

DATE 13 FEB 76 TABULATED	PRESSURE DATA - DAIMB (AMES 11-073-1)	1-073-1)			ă	PAGE 5129
	AMES 11-073(0A14B) -140A/B/C	ORB BODY FLAP LWR		(XEBG80)		
ALPHA (3) = 4.029 BETA (5) =	8.276 HACH = .59628	0 = 593.97	• a	2386.5	3	4.8207
SECTION (1)BODY FLAP LOWER	DEPENDENT VARIABLE CP					
X/LB 1.0160 1.0460						
PHI .000370B2410 40.03023151624						
ALPHA (4) = 7.903 BETA (1) =	-7.896 МАСН = .59626	Q = 593.85	•	2386.1	PN/L	#.8197
SECTION (1) BODY FLAP LOWER	DEPENDENT VAR: ABLE CP					
X/LB 1.0190 1.0460						
1Hd .00037582417 4785 6295 000.04						
ALPHA (4) = 7.912 BETA (2) =	-3.851 MACH = .59626	Q = 593.85		2386.1	1/A	* 4.8197
SECTION (11800Y FLAP LOWER	DEPENDENT VARIABLE CP					
X/LB 1.0180 1.6450						
PHI .COD36932372 40.0002868249						
ALPHA (4) = 8.059 BETA (3) =	.184 MACH = .59626	0 = 593.85		2386.1	EN/L	1.8397
SECTION 1 11BODY FLAP LOWER	DEPENDENT VARIABLE CP					
X/LB 1.0:80 1.0450						
PHI .05C37C22404 9C.00026731972						
ALPHA (4) * 8.016 BETA (4) =	4.233 MACH = .59626	0 = 593.85	# a.	2386.1	RN/L =	4.8197
SECTION (1) BODY FLAP LOWER	DEPENDENT VARIABLE CP					
X/LB 1.0180 1.3460						
PHI .00037672497 40.00023651743						

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	ANES 11-073(0A198) -140A/B/C	CRB BODY FILAP LWR		O SE O SE X :		
ALPHA (4) = 8.043 BETA (15) =	8.283 MACH = .59526	Q = 593.85	Q.	# P345.	# 1784	18:0:4
SECTION (17800Y FLAP LOWER	DEPENDENT VARIABLE CP					
X/LB 1.0180 1.0455						
1Hd 6245,- 7175,- 000,04 6681,- 7055,- 000,04						
ALPHA (5) = 11.974 BETA (1) =	-7.850 MACH = .59850	G = 594.19	Œ.	= 2355.7	TANK TO TANK	4.8155
SECTION (11992) FLAP LOSER	DEPENDENT VARIABLE CP	**				
x (1.0.10.10.10.10.1						
FH1 .00027802333 .0.00029382530						
ALP4A (5) # (1,993 857A (2) #	-3.8+2 М4СН = .59850	g: '+65	J.	₹ 2385.7	BNVL #	B 613
SECTION (1)800Y FLAP LOWER	DEPENDENT VARIABLE OF					
K/LB 1.0180 1.0469						
183 135(6 - 1833) - 135(6 - 1833) - 135(6 - 1833)						
ALPHA 1 57 = 12,035 BETA (3) =	.179 MACH = .59550	0 = 594.19	œ	# 2385.7	3 B 1/2/2	4.5199
SECTION OF PEODY FLAP LOWER	DEPENDENT VARIABLE CP					
0940*: 0610*1 67/X						
P41 .00038192352 40.00023761723						
ALF4 : 5) = 12.027 957A (4) =	4.242 MACH ≈ .59650	å = 594,19	a	≠ 23B5.7	S'T B TORK	8i Si
SECTION (1) BODY FLAP LOWER	DEPENDENT VARIABLE CP					
X/LB 1.0180 1.0460						
184 185 - 258 - 000 - 184 185 - 000 - 185						

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TABULATED PRESSURE DOTA - DAINB (AMES 11-073-1)

ORB BODY FLAP LWR AMES 11-073(0A148) -140A/B/C

DEPENDENT VARIABLE CP SECTION (1)800Y FLAP LOWER

ALPHA (5) = 12.051 BETA (5) =

1.0180 1.0460 X/LB

- 3451 - 1974

8.297 MACH = .59650

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2385.7

PABE 5131

* 4.8199

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(XEBSBD)

DATE 13 FEB 78 TABULATED PRESSURE DATA - OA148 (AMES 11-073-1)	-			ñ.	546E 5132
AMES 11-073(0A148) -140A/B/C ORB BOD	BODY FLAP LWR		(XEB081)	89	AUG 75)
REFERENCE DATA			PARAMETRIC	DATA	
SREF = 2690.000C SO.FT. XMRP = 1076.6800 IN. XO LREF = 474.800C IN. YMRP = .0000 IN. YO BREF = 936.0680 IN. ZMRP = 375.0000 IN. ZO SCALE = .0363		RUDDER = BOFLAP = R-ELVN =	10.000 -11.700 10.600	SPDBRK = L+ELVN = MACH =	. 000 10.030 1.400
ALPHA (!) = -3.955 BETA (!) = .178 MACH = 1.3929 Q	= 599.69	۵	= 441.59	RN/L	= 2.9281
SECTION (1)BODY FLAP LOWER DEPENDENT VARIABLE CP				we we	
X/L9 1.0180 1.0460				1	
HH 000 4134 600 900 04				* ** 1 2 * V	
ALPHA (2) = .028 BETA (1) = .177 MACH = 1.3894 0	= 599.62	λ	- 443.71	· RN/L	= 2.9315
SECTION (1)BODY FLAP LOWER DEPENDENT VARIABLE CP				w ••	
X/LB 1.0180 1.0460					
### 1714 1714 330. 1835 4484 330. 1846 335.0				1.1742 13	
ALPHA (3) = 3.945 BETA (1) = -3.872 MACH = 1.3917 0	± 599.67	۵	= 442.30	EN/L	= 2.525E
SECTION (1)BODY FLAP LOWER DEPENDENT VARIABLE CP				WF 1	
X/LB 1.018C 1.0460					
### B85E'- \$184'- 000'Ch				1 1 1 1 1 -	
ALPH4 (3) = 3.983 BETA (2) = .185 MACH = 1.3917 Q =	= 599.67	۵	* 442.30	FN/L	= 2.9526
SECTION (1)BODY FLAP LCWER DEPENDENT VARIABLE CP					
X/LB 1.0180 1.0460				ir • •	
PHI .00037773922 40.00040933082					,

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DATE 13 FEB 76 TABULATED PRESSURE DATA - OAI48 (AMES 11-073-1)	1-073-1					PAGE 51	6133
AMES 11-07310A148) -140A/B/C	ORB BO	ORB BODY FLAP LUR		(XEBGB1)	381)		
ALPHA (3) = 3.932 BETA (3) = 4.246 MACH = 1.3917	o	= 599.67	۵	- 442.30	RN/L	u	2.9226
SECTION (1)BODY FLAP LOWER DEPENDENT VARIABLE CP							
X.LB 1.0180 1.0450							
PHI .00037383916 40.00738972867							
ALPHA (4) = 7.903 BETA (1) = .179 MACH = 1.3906	o	= 599.65	α .	= 443.00	BN/L	نه «	2.9169
SECTION (1) BODY FLAP LOWER DEPENDENT VARIABLE CP							
X/LB 1.0180 1.0460							
PHI .50034783616 +0.00039472831							
ALPHA (5) = 11.906 BETA (1) = -3.868 MACH = 1.3903	o	* 599.44	O.	- 443.00	RN/L	ល់ •	2.9079
SECTION (1)BODY FLAP LOWER DEPENDENT VARIABLE CP							
X/L8 1.0180 1.0460							
PH1 .00032593384 .000039092739							
ALPHA (5) = 11.836 BETA (2) = .169 MACH = 1.3903	o	# 599.44	ο.	= 443.00	RRAIL	# 0	φ.
SECTION (1)800Y FLAP LOWER DEPENDENT VARIABLE CP						•	****
X/LB 1.0180 1.0460							
PHI .00031873349 90.00037322408							
ALPHA (5) = 11.887 6ETA (3) = 4,249 MACH = 1.3903	0	##. 599.44	۵	= 443.00	REA/L	က် #	2.9079
SECTION (1)BODY FLAP LOWER DEPENDENT VARIABLE CP							
X/LB 1.0180 1.0460							
PHI .05031963409 .00.0035322741							

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ANES 11-073(0A148) -140A/B/C ORB BODY FLAP LUR TABULATED PRESSURE DATA - DATHB (AMES 11-073-1) DATE 13 FEB 76

.160 MACH = 1.3887

BETA (1) =

ALPHA (6) = 15.870

= 2.9065

RN/L

14.444

= 599.91

o

(XE8691)

PAGE 6134

DEPENDENT VARIABLE CP SECTION (1) BODY FLAP LOWER

1.0180 1.0460 X/LB

-.2884 -.3298 PH1 .000 40.000

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PAGE 5135 (XEBGB2) (05 AUG 75)	PARAMETRIC DATA 10.000 SPDBRK = .000 -11.700 L-ELVN = -10.000 10.000 MACH = 1.250	• 551.58 RN/L • 3.0277	= 552.28 RN/L = 3.0295	= 552.51 RN/L = 3.0275	= 552.51 RN/L = 3.0275
-073-1) ORB BODY FLAP LWR	RUDDER = BOFLAP = R-ELVN =	e 600.03	0 = 599.87 P	9 28.82 P	a 599.82
DATE 13 FEB 75 **ABULATED PRESSURE DATA - DAIMB (AMES 11-073-1) AMES 11-073(0A148) -140A/B/C ORB B0	NEFEMENCE DATA SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO LREF = 474.8000 IN. YMRP = .0000 IN. YO BREF = 936.0680 IN. ZMRP = 375.0000 IN. ZO SCALE = .0300	ALPHA (1) = -4.001 BETA (1) = .172 MACH = 1.2466 SECTION (1)8007 FLAP LOWER DEPENDENT VARIABLE CP X/LB 1.0180 1.0460 PHI .CCC -55535742 42.03353654279	(1) BODY FLAP LOWER DEPENDENT VARIABLE CP 1.0180 1.0460 5167538450213952	ALPHA (3) = 3.913 BETA (1) = -3.880 MACH = 1.2454 SECTION (1)800Y FLAP LOHER DEPENDENT VARIABLE CP X/LS 1.0180 1.0460 FHI CCS48705073 40.0505114 - 3762	ALPHA (3) = 3.950 BETA (2) = .192 MACH = 1.2454 COOM SECTION (1) BROY FLAP LOJER CPENDENT VARIABLE CP AXLB (1.0180 1.0460 A XLB (1.0180 1.0460 THE AND PHI A 0.00047293525 A 1.00047293525

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DATE 13 FEB 76 TABULATED P	PRESSURE DATA - OA148 (AMES 11-073-1)	-073-1)			ã	PAGE 6135
	AMES 11-073104148) -1404/B/C	ORB BODY FLAP LWR		(XEB682)		
ALPHA (3) = 3.915 BETA (3) =	4.246 MACH = 1.2454	G = 599.82	٥	= 552.51	RN/L	3.0275
SECTION (1180DY FLAP LOWER	DEPENDENT VARIABLE CP					
X/LB 1.0180 1.0463						
PH1 .000476;4998 40.00042723380						
ALPHA (4) = 7.875 BETA (1) =	.170 MACH = 1.2457	0 = 599.87	<u>.</u>	* 552.28	RN/L	* 3.0295
SECTION (1)BODY FLAP LOWER	DEPENDENT VARIABLE CP					
X/LB 1.0180 1.0460						
1Hd 2694 0944 300.34 8918 6484 300.34						
ALPHA (5) = 11.893 BETA (1) =	~3.862 MACH = 1.2456	a = 600.06	۵.	= 552.51	RN/L	= 3.0278
SECTION : 1) BODY FLAP LOWER	DEPENDENT VARIABLE CP					
X/L8 1.0130 1.0460						
PH: 						
ALPHA (5) = 11.948 BETA (2) =	.178 MACH ≥ 2456	90.009 = 0	۵	552.5 1	RN/L	= 3.0278
SECTION (1) BODY FLAP LOWER	DEPENDENT VARIABLE CP					•
X/LB 1.018D 1.046D						
PH; .00042574458 .000.04						
ALPHA (5) = 11.969 BETA (3) =	4.251 MACH # 1.2456	90.00	۵	- 552.51	RYL	3.0278
SECTION (1) BODY FLAP LOWER	DEPENDENT VARIABLE CP					
X/LB 1.0180 1.0460						
P4! .030 4531 .00.000 4536 3156						

DATE 13 FEB 76 TABULATED PRESSURE D.	PRESSURE DATA - OAI48 (AMES 11-073-1)	-073-1		••		•	PAGE 6137
AMES 11-0	AMES 11-073(0A148) -140A/B/C	ORB BODY FLAP LWR	AP LWR		(XE8083)		(05 AUG 75)
REFERENCE DATA					PARAMETRIC DATA	DATA	
SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 II LREF = 474.8000 IN. YMRP = .0000 II SREF = 936.0680 IN. ZMRP = 375.0000 II SCALE = .0300	IN. XO IN. YO IN. ZO			RUDDER = BOFLAP = R-ELVN =	10.000 -11.700 10.000	SPCBRK ** L-ELVN ** MACH **	.000 -10,300 1.100
ALPHA (1) = -3.943 BETA (1) = .171	MACH = 1.0992	*	599.30	۵	= 708.59	RN/L	= 3.1942
SECTION (1) BODY FLAP LOWER	DEPENDENT VARIABLE CP						
X/L9 1.0180 1.0460							
PHI .C00698+7175 +0.0005+374588				,			
ALPHA (2) = .065 BETA (1) = .171	MACH = 1.0980	£:	599.15	۵	- 710.01	RN/L	3,1985
SECTION (1)BODY FLAP LOWER DEPENT	DEPENDENT VARIABLE CP						
X/LB 1.0180 1.0460							
PH1 .00069417015 40.00053374449							
ALPHA (3) = 3.859 BETA (1) = -3.876	MACH = 1.0981	C)	598.75	٩	= 709.30	RN/L	= 3,1983
SECTION (1) BODY FLAP LOWER	DEPENDENT VARIABLE CP						
X/LB 1.0180 1.0450							
PHI .00065675870 .000.00							
ALPHA (3) = 3.908 BETA (2) = .189	MACH = 1.0981	(C)	598.75	<u>a</u>	= 709.30	RN/L	= 3.1983
SECTION (!) BODY FLAP LOWER DEPEND	DEPENDENT VARIABLE CP						
X/LB 1.0180 1.0460							
рні 1873 1978 300.							

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-.5521 -.6731 - 5190 -.4178 .000 40.000

DATE 13 FEB 76	TABULATED	TABULATED PRESSURE DATA - CAI48 (AMES 11-073-1)	11-073-1)				-	PAGE 6138	338
		ANES 11-073(0A148) -140A/B/C	C ORB BODY FLAP LUR	LWR .		(XE8C83)			
ALPHA (3) = 3.913	3 BETA (3) =	4.243 MACH = 1.0981	965 = 596	598.75	۵	າ ຮ. 907 =	RN/L	.,,	3.1983
SECTION (1) BODY FLAP LOWER	AP LOWER	DEPENDENT VARIABLE CP							
X/LB 1.0180 1.	1.0460								
PH1 .0006561 - 5616 000.04	65!3 4274								
ALPHA (4) = 8.023	3 BETA (1) =	.173 MACH = 1.0972	365 = 59E	598.87	α .	17.017 =	RN/L	M ₩	3.1996
SECTION (1) BODY FLA	FLAP LOWER	DEPENDENT VARIABLE CP	•						
X/LB 1.0190 1.	1.0460								
1Hd .000 7523 000.04	6497 3997								
ALPHA (5) = 11.886	S BETA (1) =	-3.856 MACH = 1.0968	g = 598	598.64	α.	- 710.95	RN/L	#	3.1978
SECTION (1) BODY FLA	FLAP LOWER	DEPENDENT VARIABLE CP							
X/LB 1.319G 1.	1.0450								
PH1 .000 - 609+ 40.0005358	52 95 43 45								
ALPHA (5) = 11.964	BETA (2) =	.179 MACH = 1.0968	0 = 596	596.64	a	= 710.95	RN/L	*	3.1978
SECTION (1)BODY FLAP LOWER	P LOWER	DEPENDENT VARIABLE CP							
X/L8 1.0180 1.	1.0460								
FH) .0006628 +0.0005126	6251 3911								
ALPHA (5) = 11.963	BETA (3) *	4.251 MACH * 1.0968	0 = 598.54		۵	- 710.95	RN/L	*	3.1978
SECTION (1) BODY FLAP LOWER	P LOWER	DEPENDENT VARIABLE CP							
X/LB 1.0:80 1.	1.0460								
PH1 	6200 4370								

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REFERENCE DATA

SREF = LREF = BREF = SCALE =

ATED PRESSURE DATA - DAINB (AMES 11-073-1)

ANES 11-073(0A148) -140A/8/C ORB BODY FLAP LWR

tertige Countries Constitution of the street engages, as between the street was being a street of the street of th

(XEBGB4) (05 AUG 75)

 3.5885 .000 .000 .000 .000 SPOBRK ... L-ELVN ... MACH ... ž **•** 1059.2 10.000 -11.706 10.000 RUDDER = BOFLAP = R-ELVN = <u>a</u> 599.63 .165 MACH = 1076.6800 IN. XO = .0000 IN. YO = 375.0000 IN. ZO BETA (1) * ማጽተን ማጽተን ማጽተን SECTION (1)BODY FLAP LOWER 2590.0000 50.FT. 474.8000 1N. 936.0590 1N. ALPHA (1) = -3.955

1.0180 1.0460 X/LB

-.3295 -.4571 -.3545 PHI .000 40.000

■ .89770 DEPENDENT VARIABLE CP .165 MACH ALPHA (2) = .057 BETA SECTION (1) BODY FLAP LOWER 1.0180 1.2450 X/LB

-.4491 -.3264 -.3520 -.2621 40.000 40.000 ä

O ***** .89803 -3.885 MACH = (1) ALPHA (3) = 3.889

3.5814

#¥

1050.0

598.38

Z Z

1060.0

1.0180 1.0460 000. 40.000 X/LB

598.38 O **89803** MACH ÷91. ر د د EE TA ALPHA (3) = 4.092

DEPENDENT VARIABLE CP

1.0180 1.0460 X/LB

PAGE 6139

PARAMETRIC DATA

DEPENDENT VARIABLE CP

O

598.28

1060.7

BETA

SECTION (1) BODY FLAP LOWER

DEPENDENT VARIABLE CP

-.5030 -.3657 -.4161 -.2723

SECTION 1 TIBODY FLAP LCHER

-.4655

DATE 13 FEB 75 TABULATED PRES	•	173-1				PAGE 5140	ច្ចាត់
AM	AMES 11-07310A1481 -140A/B/C 0	ORB BODY FLAP LWR		(XEBGBH)	(1 85		
A_FHA (3) = 3.995 BETA (3) = 1	4.248 MACH = .89803 0	598.38	۵	. 1060.0	D RW/L		3.5814
SECTION (1) BODY FLAP LOWER	DEPENDENT VARIABLE CP						
X/LB 1.0180 1.0460							
PH1 .00045833247 40.00033362301							
ALPHA (4) = 8.008 BETA (1) =	.163 MACH = .89820 0	598.16	۵	- 1059.3	3 RN/L	•	3.5792
SECTION (1) BODY FLAP LOWER	DEPENDENT VARIABLE CP						
X/LB 1.0180 1.0%60				•			
PHI .00050793803 40,00038122613					,		
ALPHA (5) = 11.969 BETA (1) *	.169 MACH = .670 0	597.35	۵.	■ 1061.4	F 88/L		3.5759
SECTION (1:BODY FLAP LOWER	DEPENDENT VARIABLE CP						
X/L9 1.0180 1.0460							
PHI .00259154190 40.0054522695							

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DATE 13 FEB 76	3 76	TABUL	ATED	PRESSI	URE DA	ITA - 0	A148	TABULATED PRESSURE DATA - DAIMB (AMES 11-073-1	11-073-	<u>.</u>					a.	PAGE E	6141
				AMES	11-07	11-073(04148)		-140A/B/C	ORB	BODY F	ORB BODY FLAP LWR			(XEBGB5)	O C DS AUG		15)
	REFERENCE DATA	٨											PAR	PARAMETRIC	DATA		
SPEF = SE BRIF = C SCALE = C	6690.0300 SQ.FT. 474.8000 IN. 935.0580 IN. .0300	XMRP YMRP ZMRP		1076.6800 .0000 375.0000	800 IN. 600 IN.	IN. X0 IN. X0 IN. X0						RUDDER * BDFLAP * R-ELVN *	-7-	10.000 -11.700 10.000	SPOBRK = L-ELVN = MACH =	-10	000.
ALPHA (1)	= -3.903 BE	BETA (=======================================		. 164	MACH		. 59520	σ	•	593.85	۵		2386.4	RN/L	<i>ж</i>	4.8155
SECTION (11800Y FLAP LOWER	œ		- -	DEPENC	DEPENDENT VARIABLE	RIABL	E CP									
x/LB	1.0180 1.0460																
000. 000. 000.04	37102580 28962020			-	,												
ALPHA (2)	± .C72 BE	BETA (=		. 163	MACH	В.	.59620	ø		593.87	α.		2387.1	1/28	,3T H	4.B288
SECTION (SECTION (1) BODY FLAP LOWER	es.		-	DEPEND	DEPENDENT VARIABLE	RIABL	E CP									
X/LB	1.0186 1.0450																
PH1 .000 40.000	37692622 29652008																
ALPHA (3)	■ 4.077 BE	BETA (=		.160	MACH		. 59680	ø	•	595.04	0.		2386.4	J/NS	<i>3</i>	.8327
SECTION (17BCOY FLAP LOWER	ρĸ)EPEND	DEPENDENT VARIABLE	RIABL	E CP									
x/LB	1.0180 1.0460															•	
PH1 .000 40.000	39002623 30041961																
ALPHA (4)	₹ 8.047 8	BETA (=		.158	MACH		.59710	o		595.63	Q.		2386.4	FN/L	<i>3</i>	4. B284
SECTION !	SECTION (1) BODY FLAP LOWER	œ,)EPEND	DEPENDENT VARIABLE	RIABL	a; E									
X/L8	1.0180 1.0460																
РН1 . 330 . 64	3853 +.2535 2917 +.1859																`

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TABULATED PRESSURE DATA - DAIWB (AMES 11-073-1)

AMES 11-073(0A148) -140A/B/C ORB BODY FLAP LWR

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.156 MACH = .59710

ALPHA (5) = 12.046 BETA (1) =

SECTION (1180DY FLAP LOWER

1.0150 1.0460

-.3729

PH1 .000 40.000

DEPENDENT VARIABLE CP

PAGE 5142

(XE8385)

Z,XE

2386.4

595.63

DATE 13 FEB 76